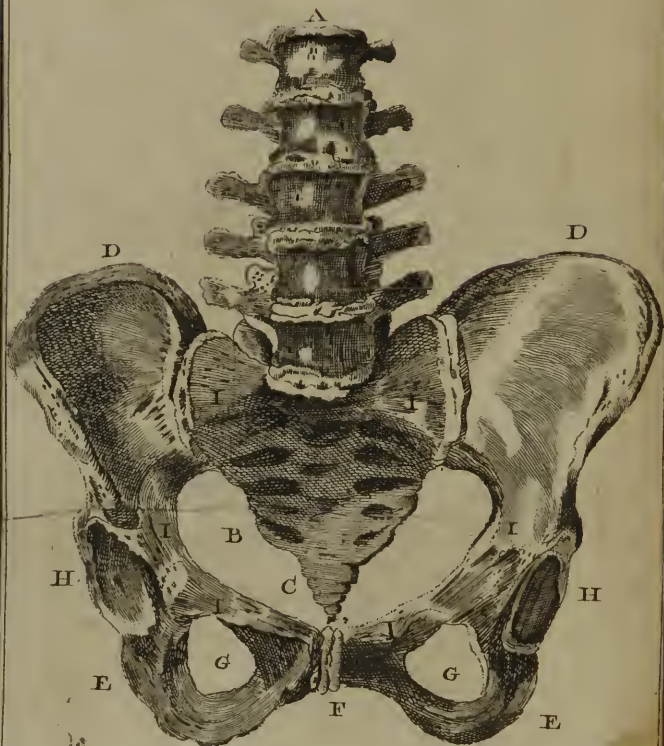


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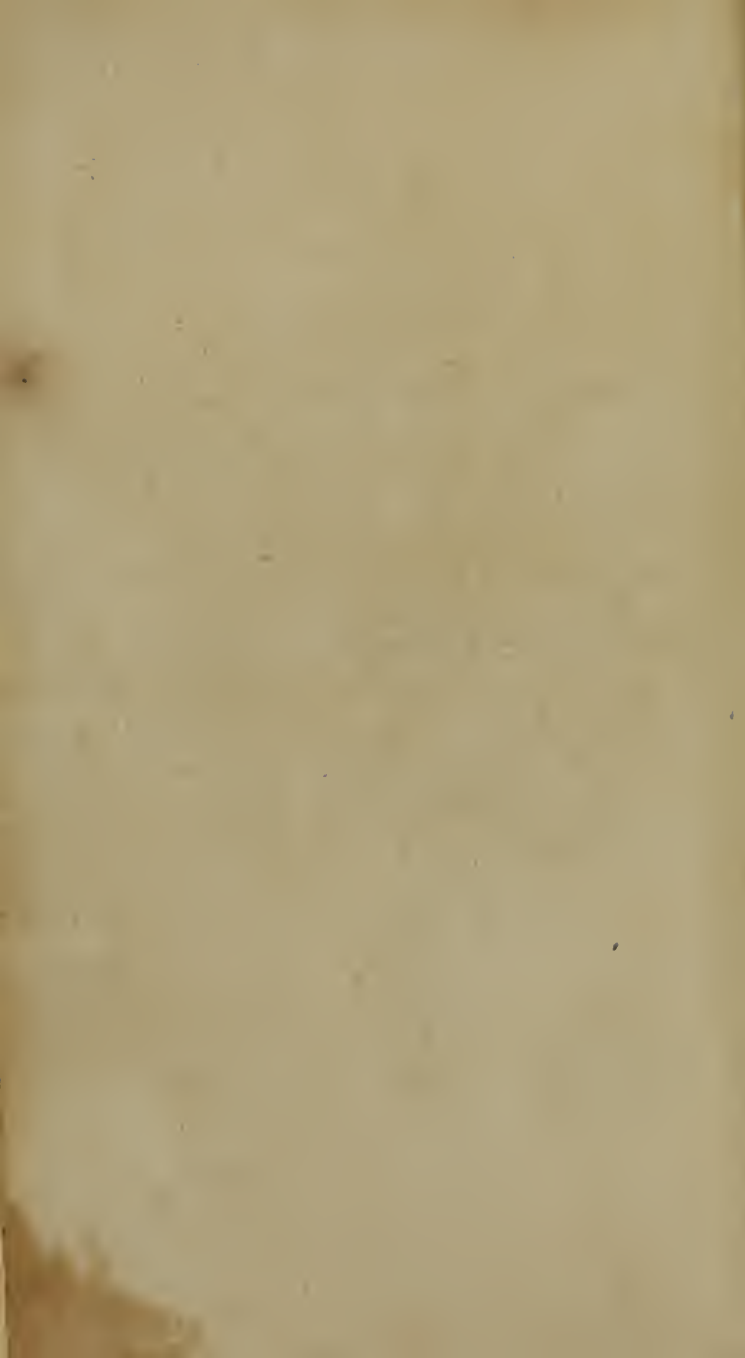
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T O
T H E P R E S I D E N T

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O F

THE MASSACHUSETTS-MEDICAL SOCIETY,

This *First* attempt

At ANATOMICAL Engraving,

In this COMMONWEALTH,

IS RESPECTFULLY DEDICATED,

BY

their Obedient humble Servant

THE EDITOR.

IT being esteemed necessary for every Practitioner of the important Art of MIDWIFERY to acquire a competent Knowledge of the *Female Pelvis*, the *Uterus*, and other Parts subservient to Generation; several gentlemen of the Faculty in this Metropolis thought it adviseable to attempt *this new* Edition of Dr. Smellie's Anatomical Tables and Cuts, together with an Abridgement of his Practice, upon such a scale, as to form a convenient Pocket Volume.

The Doctor's useful treatise upon this subject, with Collections of Cases in three Volumes 8'vo. and his Folio Edition of the Tables &c. are in the hands of but few.

The Publisher of this Work, hath at a great expence of time and money prepared it for the Public.

For the convenience of such Gentlemen as have the three Volumes *without* the Cuts, the References are reprinted.

B O S T O N July 1786.

Errata] Page 41. Line 4th for *of* read *to* the Sacrum.
Page 20 7th line from the bottom, for *Externum* read *Internum*.

The lesser Errors of the Press the candid Reader is requested to correct.

A
S E T
O F
ANATOMICAL TABLES,
WITH EXPLANATIONS;

And an Abridgement of the PRACTICE of MIDWIFERY,
which will Illustrate a TREATISE on that subject, and
COLLECTION of CASES. Published in 3 Volumes 8vo.

THE FIRST TABLE

Represents in a Front-View the bones of a well formed
Pelvis.

A The five *Vertebræ* of the Loins.

B The *Os Sacrum*.

C The *Os Coccygis*.

D D The *Offa Ilium*..

E. E The *Offa Ischiûm*.

F. The *Offa Pubis*.

G. The *Foramina Magna*.

H. H The *Acetabula*.

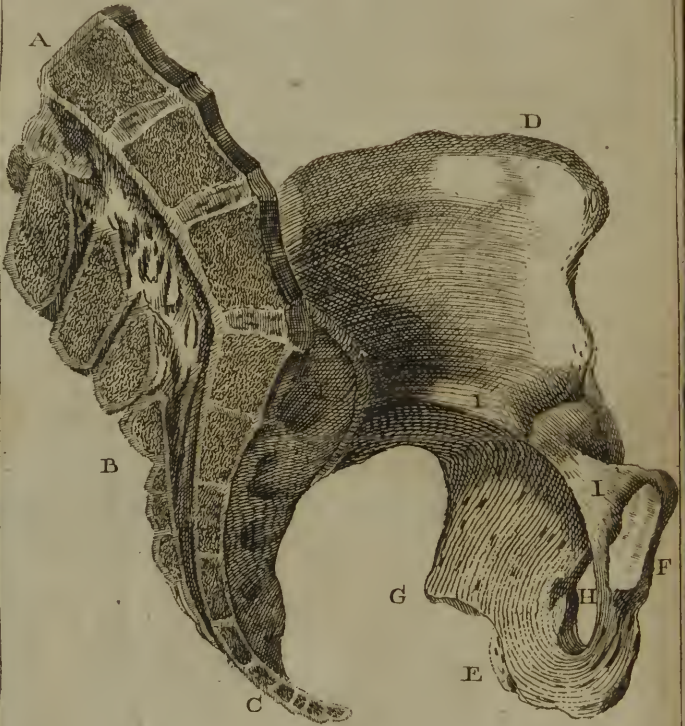
I.I.I.F.I.I the brim of the *Pelvis*, or that circumference of its cavity, which is described at the sides, by the inferior parts of the *Offa Ilium*, and at the back and fore-parts, by the superior parts of the *Offa Pubis* and *Sacrum*.

In this Table besides the general structure and figure of the several Bones, the dimensions of the Brim of the *Pelvis*, and the distance between the under-parts of the *Offa Ischiûm*, are particularly to be attended to, from which it will appear that the cavity of the Brim is commonly wider from
side

side to side, than from the Back to the fore-part, but that the sides below are in the contrary proportion. The Reader, however, ought not from this to conclude, that every *Pelvis* is similar in figure and dimensions, since even well-formed ones differ in some degree from each other. In general, the Brim of the *Pelvis* measures about five inches and a quarter from side to side, and four inches and a quarter from the back to the fore-part; there being likewise the same distance between the inferior parts of the *Ossa Ischiûm*. All these measures, however, must be understood as taken from the Skeleton, for in the Subject, the cavity of the *Pelvis* is considerably diminished by its teguments and contents. Correspondent also to this diminution the usual dimensions of the head of the full grown *Fœtus* are but three inches and an half from ear to ear, and four inches and a quarter from the fore to the hind-head.

Vide Tab. XVI. XVII. XVIII. Also Vol. I. Chap. I. Sect. 1. 2, 3. where the form and dimensions of the *Pelvis*, as well as of the head of the *Fœtus*, and the manner in which the same is protruded in Labour through the Basson, are fully treated of. Consult likewise Vol. II. Col. 1. No. 1. 2. where Cases are given of complaints of the *Pelvis* arising from difficult Labours.





THE SECOND TABLE

Gives a lateral and internal View of the *Pelvis*, the same being divided longitudinally,

A The three lower *Vertebrae* of the Loins.

B The *Os Sacrum*.

C The *Os Coccygis*.

D The left *Os Ilium*.

E The left *Os Ischiūm*.

F The *Os Pubis* of the same side.

G The acute process of the *Os Ischiūm*.

H The *Foramen Magnum*.

I.I.I The Brim of the *Pelvis*.

This Plate shews the distance from the superior part of the *Os Sacrum* to the *Ossa Pubis*, as well as from the last mentioned Bones to the *Coccyx*, which in each amounts to about four inches and a quater. The depth likewise is shewn of the posterior, lateral and anterior parts of the *Pelvis*, not in the line of the Body, but in that of the *Pelvis* from its Brim downward, which is generally three times deeper on the posterior than anterior part, and twice the depth of the last at the sides.

From this view appears also the Angle which is formed by the last *Vertebra* of the loins and the superior part of the *Os Sacrum*, as likewise the concavity or hollow space in the posterior internal part of the *Pelvis*, arising from the curvature of the last-mentioned Bone and *Coccyx*; finally, the distance from which to the posterior parts of the *Ossa Ischiūm* is here expressed.

Vide Tab. XVI. XVII. XVIII. XIX. Also Vol. I. and II. as referred to in the former Table.

T H E

T H E T H I R D T A B L E.

Exhibits a Front-View of a distorted *Pelvis*

A The five *Vertebræ* of the Loins.

B The *Os Sacrum*.

C The *Os Coccygis*.

D. D The *Ossa Iliûm*.

E. E The *Ossa Ischiûm*.

F The *Ossa Pubis*.

G. G The *Foramina Magna*.

H. H The *Acetabula*.

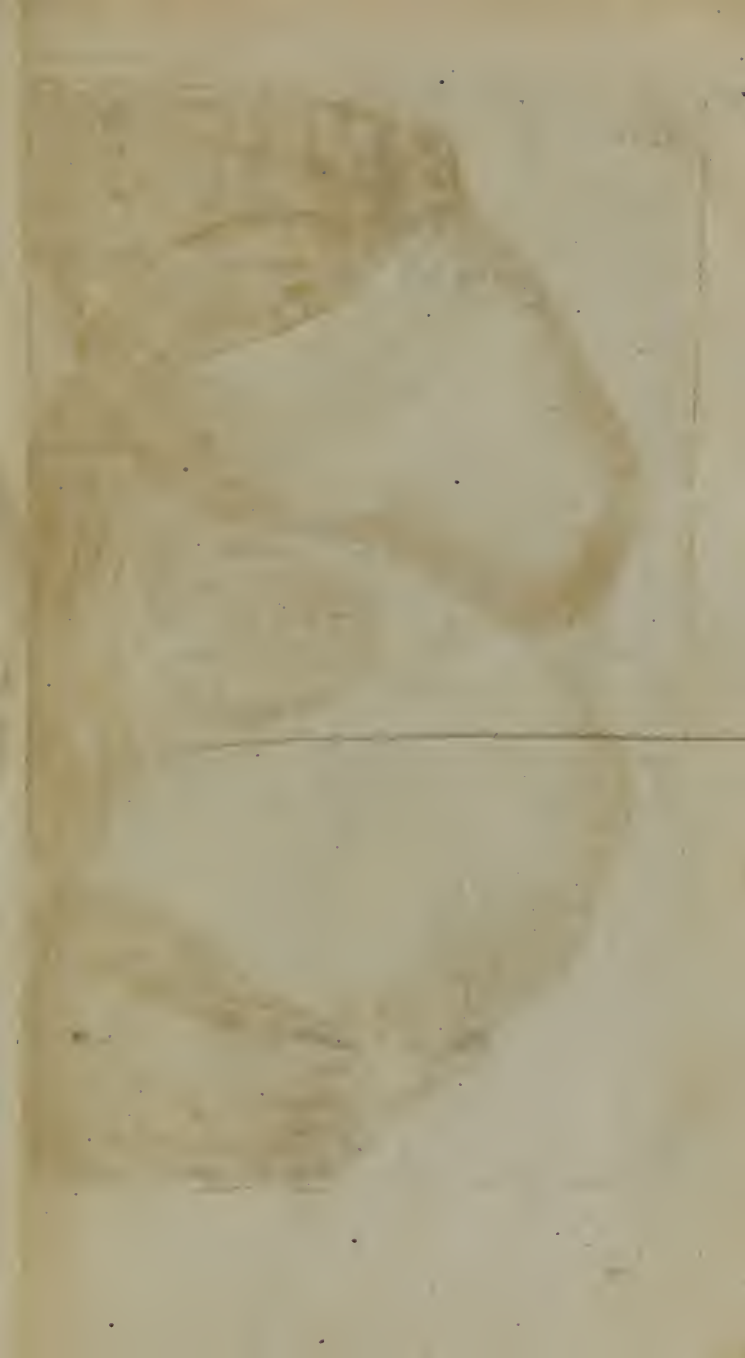
From this Plate may appear the great danger incident to both Mother and Child when the *Pelvis* is distorted in this manner ; it being only two inches and an half at the Brim from the posterior to the anterior part, and the same distance between the inferior parts of each *Os Ischiûm* Vide Tab. XXVII. where the *Pelvis* is one quarter of an inch narrower at the brim than this, but sufficiently wide below. Vericus are the forms of distorted Basons, but the last mentioned is the most common. It a great happiness however in practice that they are seldom so narrow, though there are instances where they have been much more so. The danger in all such cases must increase or diminish, according to the degree of distortion of the *Pelvis* and size of the Child's head.

Vide Vol. I. Lib. 1. Chap. I. Sect. 4. 5. and Vol. II. Coll. 1. No. 3, 4, 5. Also Coll. 21. 27. and 29.

T H E









THE FOURTH TABLE

Shews the external Female parts of Generation.

- A The lower part of the *Abdomen*.
- B. B The *Labia pudendi* separated.
- C The *Clitoris* and *Præputium*.
- D. D The *Nymphæ*.
- E The *Fossa magna*, or *Os Externum*.
- F The *Meatus urinaris*.
- G The *Frænum Labiorum*,
- H The *Perinæum*.
- I The *Anus*.
- K The part that covers the extremity of the *Coccyx*.
- L. L The parts that cover the Tuberosities of the *Offa Ischiûm*.

As it is of great consequence to every practitioner in Midwifery, to know exactly the Situation of the parts concerned in Parturition, and which have not been accurately described by former Anatomists; with a view to this particular Branch, I have given this Draught from one of the preserved Subjects which I keep by me, in order to demonstrate these parts in the ordinary Course of my Lectures. From a View then of the situation of the parts it appears that the *Os Externum* is not placed in the middle of the inferior part of the *Pelvis*, but at the anterior and inferior part of the *Pubis*, and that the *Labia* cover likewise the anterior part of these bones.

Secondly, It may be observed, that as the *Frænum Labiorum*, which is nearly adjoining to the inferior part of the *Offa Pubis*, is only about an inch from the *Anus*, between which and the *Coccyx* there is about three inches distance, it follows, that the *Anus* is nearer to the first-mentioned Bones than to the latter.

Thirdly. The View of this and the following Table will

furnish

furnish proper hints, with respect to the method of touching or examining the *Os Uteri* without hurting or inflaming the parts, as it appears that the *Os Externum* is placed forwards towards the *Pubis*, and the *Os Uteri* backwards towards the *Rectum* and *Coccyx*. By this wise mechanism of Nature many inconveniencies are often prevented, which must happen, if these parts were opposite to each other, and situated in the middle of the inferior part of the *Pelvis*, particularly a *Prolapsus* of the *Vagina* and *Uterus*, either in the unimpregnated state, or in any of the first four months of Pregnancy; as also too sudden deliveries in any of the last months.

Fourthly, From a View of the Situation of the parts it will appear, that in Labour, when the *Os Uteri* is sufficiently opened to allow a passage for the Head of the *Fætus*, the same is protruded to the lower part of the *Vagina*, by which the external parts are pushed out in form of a large Tumor, as in Table XV.

Lastly, It may be observed, that when it is necessary to dilate the *Os Externum*, the principal force ought to be applied downwards and towards the *Rectum*, to prevent the *Urethra* and the neck of the Bladder from being hurt or inflamed.

Vide Vol. I. Lib. I. Chap. 2. Sect. 1. Vol. II. Coll. 2

T H E F I F T H T A B L E

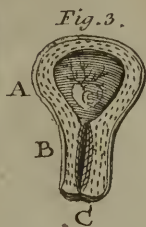
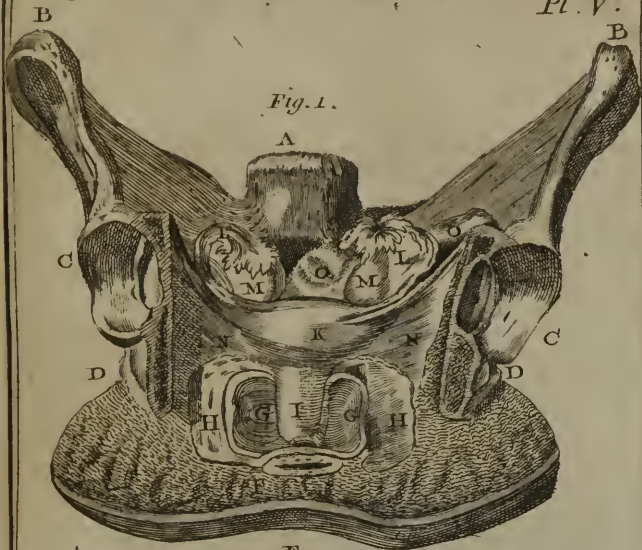
FIGURE I. Gives a Front View of the *Uterus* in *Situ* suspended in the *Vagina*; the anterior parts of the *Ossa Ischiûm* with the *Ossa Pubis*, *Pudenda*, *Perinæum*, and *Anus*, being removed in order to shew the internal Parts.

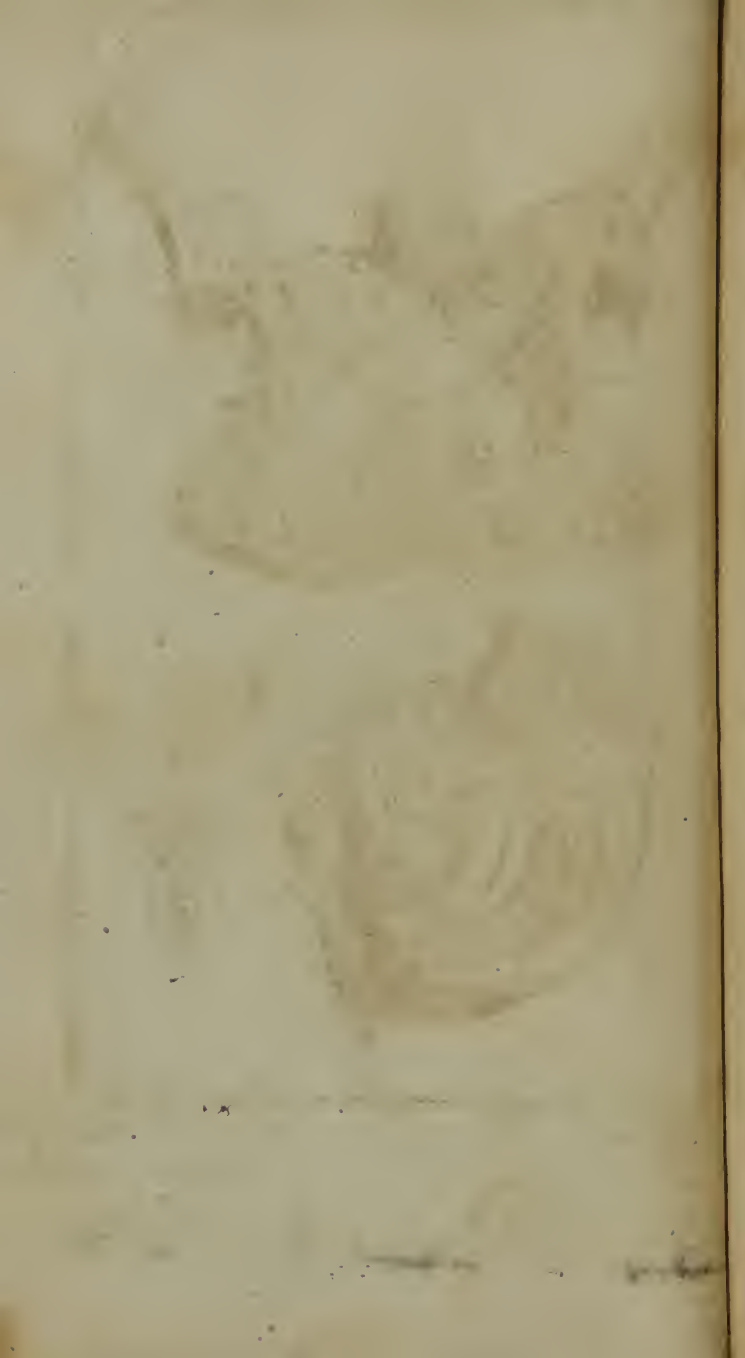
A The last *Vertebra* of the *Loins*.

B. B The *Ossa Iliûm*.

C. C The *Acetabula*.

D D





D. D The inferior and posterior parts of the *Ossa Ischium*.
vide Table XXIX. where the *Ossa Pubis* and the anterior
 parts of the *Ossa Ischiûm* are represented by dotted Lines.

E The part covering the Extremity of the *Coccyx*.

F The inferior part of the *Rectum*.

G. G The *Vagina* cut open longitudinally and stretched
 on each side of the *Collum Uteri*, to shew in what manner the
Uterus is suspended in the same.

H. H Part of the *Vesica Urinaria* stretched on each side
 of the *Vagina* and inferior part of the *Fundus Uteri*.

I The *Collum Uteri*.

K The *Funais Uteri*.

L. L The *Tubæ Fallopiæ* and *Fimbriæ*.

M. M The *Ovaria*.

N. N. The *Ligamenta lata* and *rotunda*.

O. O The superior part of the *Rectum*.

FIGURE II. Gives a View of the internal Parts as seen
 from the right Groin, the *Pelvis* being divided longitudi-
 nally.

A The lowest *Vertebra* of the Loins.

B, C The *Os Sacrum* and *Coccyx*, with the Integuments

D The left *Os Iliûm*.

E The inferior part of the left *Os Ischiûm*.

F The *Os Pubis* of the same side.

G The *Foramen Magnum*.

H The *Acetabulum*.

I. I. I The inferior Part of the *Rectum* and *Anus*.

K The *Os Externum* and *Vagina*; the *Os Uteri* lying
 loosely in the same.

L The *Vesica Urinaria*.

M. N The *Collum* and *Fundus Uteri*, with a View of the
 cavity of both. The attachment of the *Vagina* round the
 outside of the Lips of the Mouth of the *Womb* is here like-

wife shewn, as also the situation of the *Uterus*, as it is pressed downwards and backwards by the *Intestines* and *Urinary Bladder*, into the concave, and inferior part of the *Os Sacrum*.

O The *Ligamenta lata* and *rotunda* of the left side.

P. P The *Fallopian Tube* with the *Fimbriæ*, and

Q The *Ovarium* of the same side.

R. R The superior part of the *Rectum*, and inferior part of the *Colon*.

FIGURE III. Gives a front View of the *Uterus* in the beginning of the first Month of Pregnancy; the anterior part being removed that the *Embryo* might appear through the *Amnios*; the *Chorion* being dissected off.

A The *Fundus Uteri*,

B The *Collum Uteri*, with a View of the rugous Canal that leads to the Cavity of the *Fundus*.

C The *Os Uteri*.

Vide Vol. I. Lib. I. Chap. 2. Sect. 2. 3. Vol. II. Coll. 3.

T H E S I X T H T A B L E.

FIGURE. I. In the same View and Section of the Parts as in the first figure of the former Table, shews the *Uterus* as appears in the second or third Month of Pregnancy, its anterior part being here likewise removed.

F The *Anus*.

G The *Vagina* with its *Plicæ*.

H. H The posterior and inferior part of the *Urinary Bladder* extended on each side, the anterior and superior part being removed.

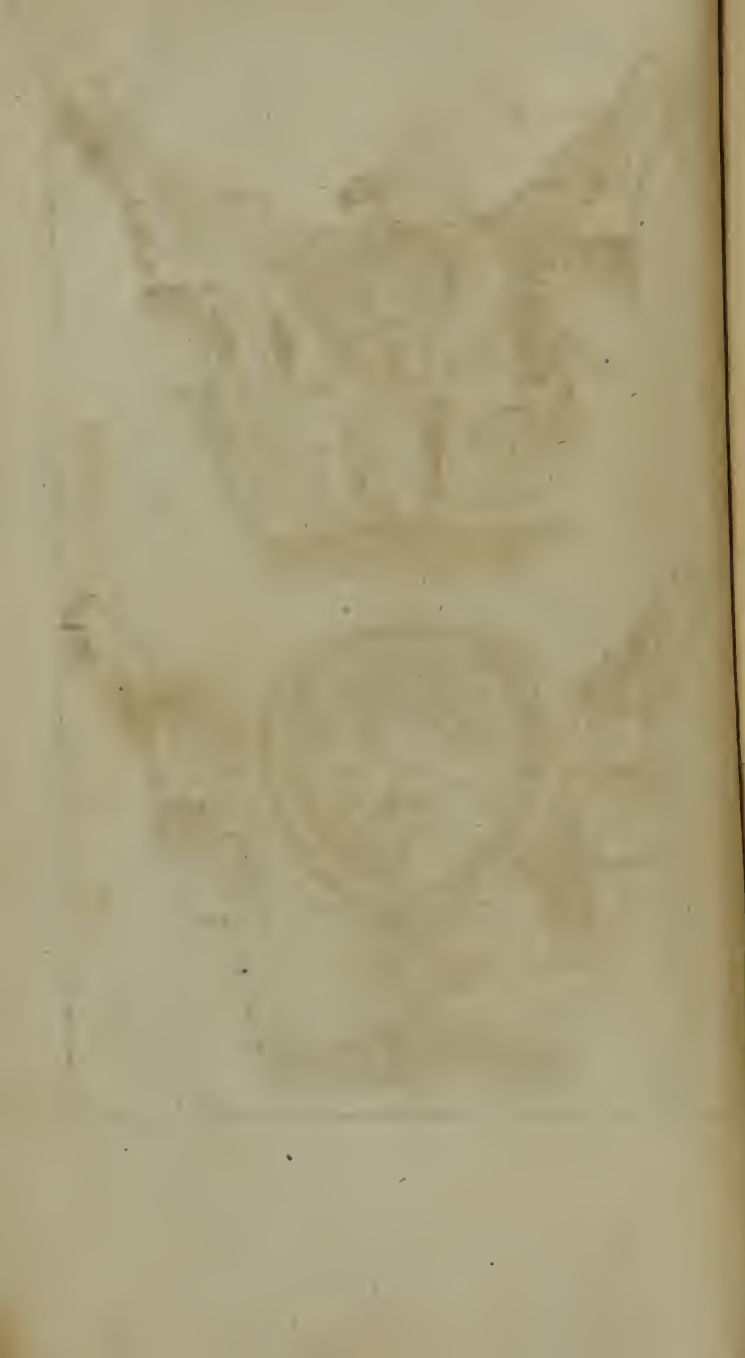
I. I The Mouth and Neck of the *Womb*, as raised up when

Fig. 1.



F
Fig. 2.





when examining the same by the touch, with one of the fingers in the *Vagina*.

K. K The *Uterus* as stretched in the second or third Month, containing the *Embryo* with the *Placenta* adhering to the *Fundus*.

It appears from this and the former Table that at this time nothing can be known, with respect to Pregnancy, from the touch in the *Vagina*, as the resistance of the *Uterus* is so inconsiderable that it cannot prevent its being raised up before the finger; and even were it kept down, the length of the Neck would prevent the stretching being perceptible. The *Uterus* likewise not being stretched above the *Pelvis*, little change is made as to the figure of the *Abdomen*, further than that the *Intestines* are raised a little higher; whence possibly the old Observation of the *Abdomen* being a little flatter at this Period than usual from the *Intestines* being pressed more to each side. Women at this Period miscarry oftener than at any other: it is a great happiness however in Practice, that although they are frequently much weakened by large discharges, yet they rarely sink under the same, but are sooner or later relieved by Labour coming on, which gradually stretches the Neck and Mouth of the *Womb*, by the *Membranes* being forced down with the Waters, and if the *Placenta* is separated from the internal surface of the *Uterus*, all its contents are discharged. But if the *Placenta* still adheres, the *Membranes* break, the Waters and *Fætus* are expelled, and the flooding diminishes from the *Uterus* contracting close to the *Secundines*, which also are usually discharged sooner or later.

From the structure finally of the Parts as represented in this and the former Table, it may appear that it is much safer to restrain the Flooding, and support the Patient, waiting with Patience the efforts of Nature, than to endeavour

voar to stretch the *Os Uteri* and deliver either with the Hand or Instruments, which might endanger a laceration and inflammation of the parts.

Vide C in Table XXXVII. also Vol. I. Lib. II. Chap. 2. Sect. 2, 3, 4. Vol. II. Coll. 12. No. 2.

FIGURE II, Represents the *Uterus* in the fourth or fifth Month of Pregnancy, in the same View and Section of the Parts with the former figure, excepting that in this the anterior part of the *Collum Uteri* is not removed.

In the natural situation the Mouth and Lips of the *Womb* are covered with the *Vagina*, and these parts are contiguous to each other, but here the *Vagina* G is a little stretched from the Neck and Lips of the former in order to shew the parts more distinctly. I The Neck of the *Womb*, which appears in this figure thicker, shorter, and softer than in the former. K. The inferior part of the *Fundus Uteri*, the stretching of which can sometimes be felt through the *Vagina* by pushing up a finger on the anterior or lateral part of the same.

The *Uterus* now is so largely stretched as to fill all the upper part of the *Pelvis*, and begins also to increase so much as to rest on the Brim, and to be supported by the same, the *Fundus* at the same time being raised considerably above the *Pubes*. From the *Abdomen* being now more stretched the Woman is more sensible of her growing bigger, and the *Uterus* also from the counter-pressure of the Contents and Parietes of the *Abdomen* is kept down and the *Os Uteri* prevented from rising before the finger as formerly. In lean Women the stretching of the *Uterus* can sometimes be perceived in the *Vagina* at this period as well as above the *Pubes*: but nothing certain can be discovered from the resistance or feel of the Mouth of the *Womb* or *Lips* which are commonly the

same



same in the first Months of Pregnancy as before it.

The size or bulk of the *Fœtus* is finally here to be observed with the *Placenta* adhering to the posterior part of the *Uterus*.

Vide the references to Vol. I and II. in the former Table.

THE SEVENTH TABLE.

Represents the *Abdomen* of a Woman opened in the sixth or seventh Month of Pregnancy.

A. A. A. A The *Parietes* of the *Abdomen* opened, and turned back to shew.

B The *Uterus*.

*C. C. C The *Intestines* raised upwards.

D. The *Labia Pudendi*, which are sometimes affected in Pregnancy with *Oedematous* swellings, occasioned by the pressure of the *Uterus* upon the returning Veins, and *Lymphatics*, If the *Labia* are so tumefied as to obstruct the patient's walking, the complaint is removed by puncturing the parts affected. By which means the serous fluid is discharged for the present, but commonly recurs; and the same operation must be repeated several times perhaps before delivery, after which however, the tumefaction entirely subsides. Here it may be observed that this complaint can seldom or never obstruct delivery, as the *Labia* are situated at the anterior part of the *Offa Pubis*, and can rarely affect the stretching of the *Frænum*, *Perinæum*, *Vagina*, and *Rectum*. From this figure it appears that the stretching of the *Uterus* can easily be felt at this period in lean Subjects, through the *Parietes* of the *Abdomen*; especially if the *Intestines* do not lie before it. In general indeed, as the *Uterus* stretches, it rises higher, by which means the *Intestines* are
like

likewise raised higher, and are also pressed to each side. Hence the nearer the Woman is to her full time, the stretching is the more easily felt.

Vide Vol. I. Lib. I. Chap. 3. Sect. 3. Lib. III. Chap. 1. Sect. 2. and Vol. II. Coll. 12, 13.

T H E E I G H T H T A B L E .

In the same View and Section of the parts as in Table VI. is represented the *Uterus* of the former Table, in order to shew its contents, and the internal parts as they appear in the sixth or seventh Month of Pregnancy.

A The *Uterus* stretched up to the *Umbilical* Region.

B. B The superior part of the *Ossa Ilium*.

C. C The *Acetabula*.

D. D The remaining posterior parts of the *Ossa Ischium*,

E The *Anus*.

F The *Vagina*.

G The bladder of *Urine*.

H The neck of the *Womb* shorter than in Table VI. and raised higher by the stretching of the *Uterus* above the Brim of the *Pelvis*.

I The Vessels of the *Uterus* larger than in the unimpregnated state.

K. K The *Placenta* adhering to the inferior and posterior part of the *Uterus*.

L. L The *Membranes* that surround the *Fœtus*, the Head of which is here represented (as well as of those in Table VI.) situated downwards at the inferior part of the *Uterus*, and which I am apt to believe is the usual situation of the *Fœtus*, when at rest, and surrounded with a great quantity of *Waters*, as the Head is heavier than any other part. With re-

spect





spect to the situation of the Body of the *Fætus*, though the fore-parts are often turned towards the sides and posterior parts of the *Uterus*. they are here as well as in the foregoing Table represented at the anterior part or forwards, in order to shew them in a more distinct and picturesque manner.

Vide Vol. I. Lib. I. Chap. 3. Sect 3, 4. Vol. II. Coll. 13. No. 1.

From this Table may appear the difficulty of stretching the *Os Uteri* in flooding Cases, even at this period, from the length and thickness of the neck of the *Womb*, especially in a first Pregnancy: much the same method however is to be followed here as was directed in Table VI. till Labour comes on to dilate the *Os Uteri*. If the Flooding is then considerable, the *Membranes* should be broken, that the *Uterus* may contract, and thereby lessen the discharge. The Labour likewise, if it is necessary, may be assisted by dilating the *Os Uteri* in time of the pains, which also, if wanting, may be provoked by the same method when the Patient is in danger. If this danger is imminent, and the Woman seems ready to expire, the *Uterus* as appears from this Table is at this time sufficiently stretched to receive the Operator's hand to extract the *Fætus*, if the *Os Internum* can be safely dilated.

Lastly, It may be observed that Women are in greater danger at this period and afterwards than in the former Months.

Vide Vol. I. Lib. III. Chap. 4. Sect. 3. No. 1, 2, 3. Vol. III. Coll. 33. No. 2. See also in the *Edinbrough* Physical and Literary Observations, Art. XVII. the Dissection of a Woman with Child, by Dr. *Donald Monro*, Physician at *London*.

THE NINTH TABLE.

In the same View and Section of the Parts with the former, represents the *Uterus* in the eighth or ninth Month of Pregnancy-

A The *Uterus* as stretched to near its full extent, with the waters, and containing the *Fætus* entangled in the *Funis*, the Head presenting at the upper part of the *Pelvis*.

B. B The superior part of the *Ossa Ilium*.

C. C The *Acetabula*.

D. D The remaining posterior parts of the *Ossa Ischium*.

E The *Coccyx*.

F The inferior part of the *Rectum*,

G. G. G The *Vagina* stretched on each side.

H The *Os Uteri*, the lips of which appear larger and softer than in the foregoing Table, the neck of the *Womb* being likewise stretched to its full extent, or entirely obliterated.

I I Part of the *Vesica Urinaria*.

K. K The *Placenta* at the superior and posterior part of the *Uterus*.

L. L The *Membranes*.

M The *Funis Umbilicalis*.

This and the foregoing Table shew in what manner the *Uterus* stretches, and how its neck grows shorter, in the different periods of Pregnancy ; as also the magnitude of the *Fætus* in order more fully to explain Vol. I. Lib. 1. Chap. 3. Sect. 4, 5. also Lib. 3. Chap. 1. Sect. 1, 2. likewise Vol. II. Coll. 13. No. 1.

Notwithstanding it has been handed down as an invariable Truth, from the earliest accounts of the Art, to the present times, that when the Head of the *Fætus* presented.

the





the Face was turned to the posterior part of the *Pelvis*; yet from Mr. Ould's Observation as well as from some late Dissections of the *gravid Uterus*, and what I myself have observed in Practice, I am led to believe that the Head presents for the most part as is here delineated, with one Ear to the *Pubes*, and the other to the *Os Sacrum*; though sometimes this may vary according to the form of the Head as well as that of the *Pelvis*.

Consult Dr. Hunter's elegant Plates of the *gravid Uterus*

THE TENTH TABLE.

Gives a front View of Twins in *Utero*, in the beginning of Labour, the anterior parts being removed, as in the preceding Tables.

A The *Uterus* as stretched with the *Membranes* and Waters.

B. B The superior parts of the *Ossa Ilium*.

C. C The *Acetabula*.

D. D The *Ossa Ischium*.

E The *Coccyx*.

F The lower part of the *Rectum*.

G. G The *Vagina*.

H The *Os Internum* stretched open about a finger's breadth with the *Membranes* and Waters in time of Labour pains.

I. I The inferior part of the *Uterus* stretched with the Waters which were below the Head of the Child it presents.

K. K The two *Placentas* adhering to the posterior part of the *Uterus*, the two *Fœtus*'s lying before them, one with its Head in a proper position, at the inferior part of the *Uterus*, and the other situated præternaturally, with the Head to the *Fundus*: the Bodies of each are here entangled in their proper *Funis*, which frequently happens in the natural as well as præternatural positions.

C

L. L. L

L. L. L The *Membranes* belonging to each *Placenta*.

This representation of Twins, according to the Order observed in my Treatise of Midwifery, ought to have been placed among the last Tables ; but as that was of no consequence I have placed it here in order to shew the *Os Uteri* grown much thinner than in the former Figure, a little open, and stretched by the Waters and *Membranes* which are pushed down before the Head of one of the *Fætus*'s in time of a Labour-pain. With respect to the position of Twins it is often different in different cases ; but was thus, in a late Dissection of a *gravid Uterus* by Dr. Mackenzie.

Vide. Vol. I. Lib. 3. Chap. 1. Sect. 4. and Chap. 5. Sect. 11. and Vol. II. Coll. 14. and Vol. III. Coll. 37.

THE ELEVENTH TABLE.

Exhibits another front View of the *gravid Uterus* in the beginning of Labour ; the anterior parts being removed, as in the former Table ; but in this the *Membranes*, not being broken, form a large bag containing the Waters and *Fætus*.

A The substance of the *Uterus*.

B.B. C.C. D.D The Bones of the *Pelvis*.

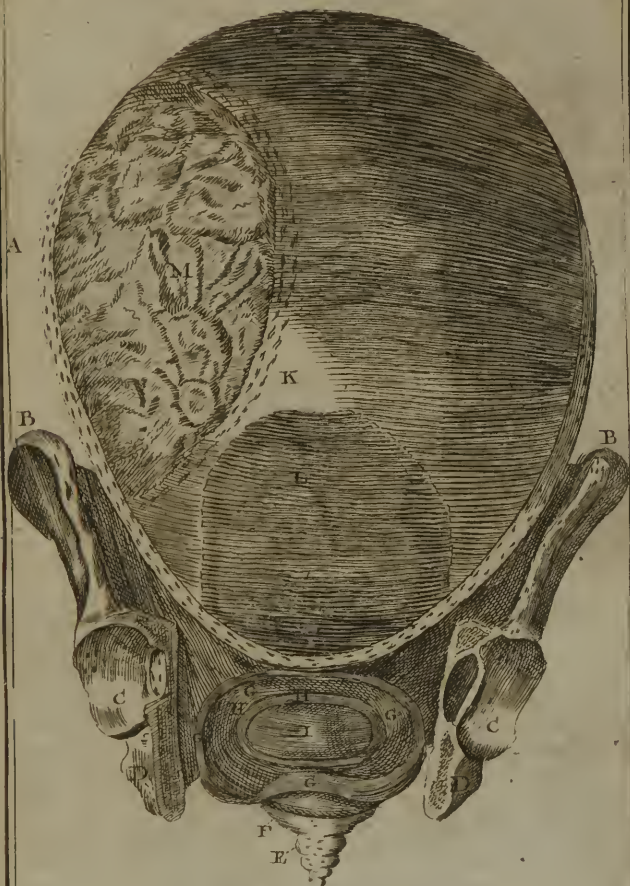
E The *Coccyx*.

F The inferior part of the *Rectum*.

G.G.G.G The *Vagina*.

H.H The Mouth of the *Womb* largely stretched in time of a pain, with I the *Membranes* and Waters. This Circumstance makes it usually certain that Labour is begun, whereas from the degree of dilatation represented in the former Table there is little to be ascertained, unless the pains are regular and strong, the *Os Uteri* being often found more open several days, and even weeks, before Labour commences.

K The





K The *Chorion*.

L The same dissected off at the inferior part of the *Uterus*, in order to shew the Head of the *Fætus* through the *Amnios*.

N. B. This Hint is taken from one of Dr. *Albinus's* Tables of the *gravid Uterus*.

M The *Placenta*, the external convex Surface of which divided into a number of *Lobes*, is here represented, its concave internal part being covered by the *Chorion*.

The *Placenta* has been found adhering to all the different parts of the internal surface of the *Uterus*, and sometimes even over the inside of the *Os Uteri*; this last manner of adhesion however always occasions Floodings as soon as the same begins to dilate.

Tables VI. VIII. IX. X. shew the internal surface of the *Placenta* towards the *Fætus*, with the Vessels composing its substance proceeding from the *Funis* which is inserted, in different *Placentas* into all the different parts of the same, as well as in the middle.

The thirtieth and thirty-third Tables shew the insertion of the *Funis* into the *Abdomen* of the *Fætus*.

With respect to the expulsion of the *Placenta*, when the *Membranes* break, the *Uterus* contracts as the Waters are evacuated till it comes in contact with the Body of the *Fætus*: the same being delivered, the *Uterus* grows much thicker, and contracts closely to the *Placenta* and *Membranes*, by which means they are gradually separated, and forced into the *Vagina*. This shews that we ought to follow the method which nature teaches, waiting with patience, and allowing it to separate in a slow manner, which is much safer practice, especially when the patient is weak; as the discharge is neither so great or sudden as when the *Placenta* is hurried down in the two common method. But then we must not run into the other extreme, but assist when nature is not sufficient to expel the same.

Vide

Vide Vol. I. Lib. 3. Chap. 1. Sect. 4. Chap. 2. Sect. 2. 5. Vol. II. Coll. 14. 23.

THE TWELFTH TABLE

Shews (in a lateral View and longitudinal Division of the Parts) the *gravid Uterus*, when Labour is somewhat advanced.

A The lowest *Vertebræ* of the Back.

B The *Scrobiculus Cordis*, the distance from which to the last mentioned *Vertebra* is here shewn by dotted lines; as also part of the Region below the *Diaphragm*.

C. C The usual thickness and figure of the *Uterus* when extended with the Waters at the latter end of Pregnancy.

D The same contracted and grown thicker after the Waters are evacuated.

E. E The figure of the *Uterus* when *Pendulous*. In this Case if the *Membranes* break when the Patient is in an erect position, the head of the *Fætus* runs a risk of sliding over and above the *Ossa Pubis*, whence the Shoulders will be pushed into the *Pelvis*.

F. F The figure of the *Uterus* when stretched higher than usual, which generally occasions Vomitings and Difficulty of Breathing. Consult on this subject Mr. *Levret sur le Mechanisme de diferentes Grossesses*.

G The *Os Pubis* of the left side.

H. H The *Os Externum*

I The *Vagina*.

K The left *Nympha*.

L The *Labium Pudendi* of the same side.

M The remaining portion of the Bladder.

N The *Anus*.

O. P The left hip and thigh.





In this Period of Labour the *Os Uteri* being more and more stretched by the *Membranes* pushing down, and beginning to extend the *Vagina*, a great quantity of Waters is forced down at the same time, and (if the *Membranes* break) are discharged; whence the *Uterus* contracts itself nearer to the Body of the *Fætus*, which is here represented in a natural position with the *Vertex* resting at the superior part of the *Ossa Pubis* and the forehead towards the right *Os Ilium*. As soon as the *Uterus* is in contact with the Body of the *Fætus* the Head of the same is forced backwards towards the *Os Sacrum* from the line of the *Abdomen* B. G. into that of the *Pelvis*, viz. from the uppermost F to near the end of the *Coccyx*, and is gradually pushed lower as in the following Tabl. 2.

If the *Membranes* do not break immediately upon their being pushed into the *Vagina*, they should be allowed to protrude still further in order to dilate the *Os Externum*.

Vide Vol. I Lib. 1. Chap. 2. Sect. 2. Chap. 3. Sect. 3. Lib. 3. Chap. 1. Sect. 1. 2. 4. Chap. 2. Sect. 3. Chap. 3. Sect. 4. No. 5. Vol. II. Coll. 10. No. 4. Case 3. 4. Coll. 14. Vol. III. Coll. 34. No. 2. Case 4.

THE THIRTEENTH TABLE.

In the same View and Section of the Parts as in Table VI. shews the natural position of the Head of the *Fœtus* when sunk down into the middle of the *Pelvis* after the *Os Internum* is fully opened, a large quantity of the Waters being protruded with the *Membranes* through the *Os Externum*, but prevented from being all discharged, from the Head's filling up the *Vagina*.

A The *Uterus* a little contracted, and thicker from some of the Waters being sunk down before the Child or discharged.

B. B The superior parts of the *Ossa Ilîum*.

C The inferior part of the *Rectum*.

D. D. The *Vagina* largely stretched with the Head of the *Fœtus*.

E. E The *Os Internum* fully opened.

F A portion of the *Placenta*.

G. G The *Membranes*.

H. H The *Ligamenta lata*.

I. I The *Ligamenta rotunda*. Both these last stretched upwards with the *Uterus*.

The *Vertex* of the *Fœtus* being now down at the inferior part of the right *Os Ischiûm*, and the wide part of the Head at the narrow and inferior part of the *Pelvis*, the forehead by the force of the pains is gradually moved backwards, and as it advances lower, the *Vertex* and *Occiput* turn out below the *Pubes*, as in the next Table. Hence may be learnt of what consequence it is to know, that it is wider from side to side at the Brim of the *Pelvis*, than from the back to the forepart, and that it is wider from the fore to the hind Head of the Child, than from Ear to Ear.

Vide





Vide Vol. I. Lib. 1. Chap. 1. Sect. 3, 5. also Lib. 3. Chap 3. Sect. 3, 4. No. 3. Vol. II. Coll. 14.

THE FOURTEENTH TABLE.

In a similar View and Section of the Parts with Table XII. shews the forehead of the *Fœtus* turned [in its progression downwards, from its position in the former Table] backwards to the *Os Sacrum*, and the *Occiput* below the *Pubis*, by which means the narrow part of the Head is to the narrow part of the *Pelvis*, that is, between the inferior parts of the *Ossa Ischiûm*. Hence it may be observed, that though the distance between the inferior parts of the last mentioned Bones is much the same, as between the *Coccyx* and *Pubes*, yet as the Cavity of the *Pelvis* is much shallower at the anterior than lateral part, the *Occiput* of the *Fœtus*, when come down to the inferior part of either *Os Ischiûm*, turns out below the *Pubes*; this answers the same end as if the *Pelvis* itself had been wider from the posterior part than from side to side; the Head likewise enlarging the Cavity by forcing back the *Coccyx*, and pushing out the external parts in form of a large Tumor, as is more fully described in the following Table.

Vide Vol. I. II. as referred to in the preceding Table.

A The *Uterus* contracted closely to the *Fœtus* after the Waters are evacuated.

B. C. D The *Vertebra* of the Loins, *Os Sacrum* and *Coccyx*.

E The *Anus*.

F The left Hip.

G The *Perinæum*.

H The *Os Externum* beginning to dilate.

I. The

I The *Os Pubis* of the left side.

K The remaining portion of the Bladder.

L The posterior part of the *Os Uteri*.

N. B. Although for the most part, at or before this period, the Waters are evacuated, yet it often happens, that more or less will be retained, and not all discharged, till after the delivery of the Child ; occasioned from the presenting part of the *Fœtus* coming into close contact with the lower or under part of the *Uterus*, *Vagina*, or *Os Externum*, immediately, or soon after the *Membranes* break.

T H E F I F T E E N T H T A B L E

Is intended principally to shew in what manner the *Perinæum* and external parts are stretched by the Head of the *Fœtus*, in a first pregnancy, towards the end of Labour.

A The *Abdomen*.

B The *Labia pudendi*.

C The *Clitoris*, and its *Præputium*.

D The hairy scalp of the *Fœtus* swelled at the *Vertex*, in a laborious case, and protruded to the *Os Externum*.

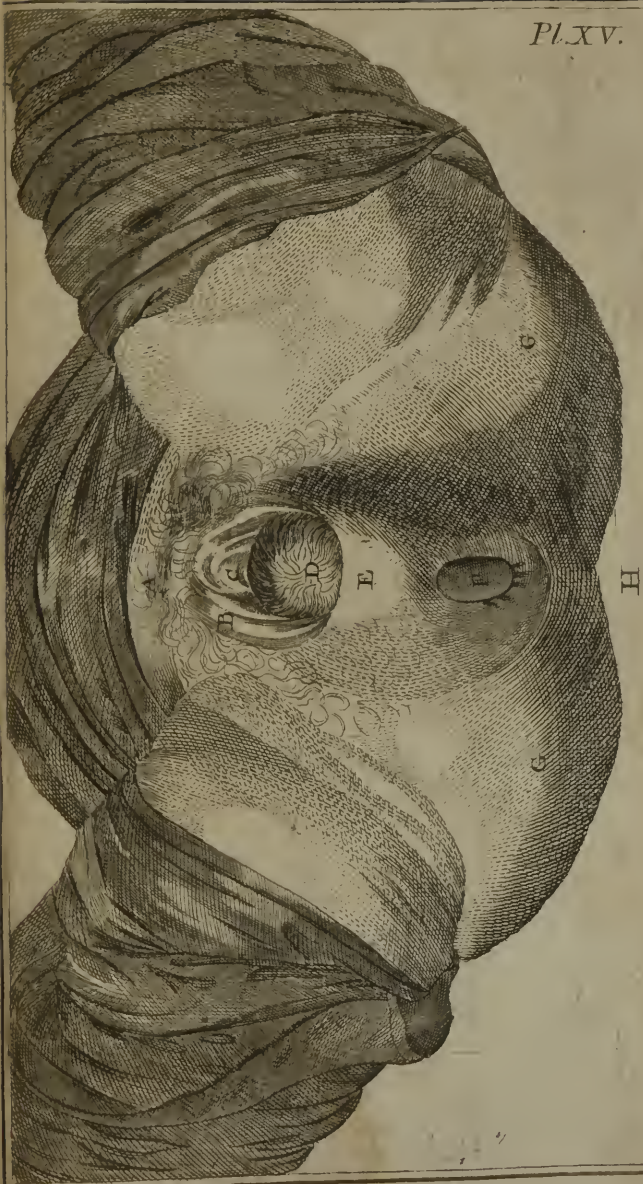
E. F. The *Perinæum* and *Anus* pushed out by the head of the *Fœtus* in form of a large *Tumor*.

G. G The parts that cover the *Tubercles* of the *Os Ischiûm*.

H The part that covers the *Os Coccygis*.

The *Perinæum* in this figure is stretched two inches, or double its length in the natural state ; but when the *Os Externum* is so much dilated by the head of the *Fœtus* as to allow the delivery of the same, the *Perinæum* is generally stretched to the length of three, and sometimes four inches.

The





The *Anus* is likewise lengthned an inch, the parts also between it and the *Coccyx* being much distended. All this ought to caution the young practitioner never to precipitate the delivery at this time, but wait, and allow the parts to dilate in a slow manner, as from the violence of the Labour-pains the sudden delivery of the head of the *Fœtus* might endanger the laceration of the parts. The palm of the operator's hand ought therefore to be pressed against the *Perinæum*, that the head may be prevented from passing till the *Os Externum* is sufficiently dilated, to allow its delivery without tearing the *Frænum*, and parts betwixt that and the *Anus*, which are at this time very thin.

Vide Vol. I. Lib. 3. Chap. II. Sect. 2. Chap. III. Sect. 4. No. 1. and Lib. IV. Chap. I. Sect. 1. also Vol. II. Coll. 14. 24. Vol. III. Coll. 40.

T H E S I X T E E N T H T A B L E .

And the three following shew in what Manner the Head of the *Fœtus* is helped along with the Forceps, as artificial Hands, when it is necessary to assist with the same for the safety of either Mother or Child. In this Table the Head is represented as forced down into the *Pelvis* by the Labour-pains, from its former Position in Table XII.

A.A.B.C The *Vertebræ* of the Loins, *Os Sacrum* and *Coccyx*.

D The *Os Pubis* of the left side.

E The remaining part of the Bladder.

F F The *Intestinum Rectum*.

G.G.G The *Uterus*.

H The *Mons Veneris*.

I The *Clitoris* with the left *Nympha*.

X The *Corpus Cavernosum Clitoridis*.

V The *Meatus urinarius*.

D

K The

K The left *Labium Pudendi*.

L The *Anus*.

N The *Perinæum*.

Q.P The left Hip and Thigh.

R The Skin and muscular part of the Loins.

The Patient in this Case may be as in this Table. on her side with her Breech a little over the side or foot of the Bed, her Knees being likewise pulled up to her Belly, and a Pillow placed between them, care being taken at the same time that the parts are by a proper covering defended from the external air. If the hairy scalp of the *Fœtus* is so swelled that the situation of the Head cannot be distinguished by the *Sutures* as in Table XXI. or if by introducing a Finger between the Head of the Child and the *Pubes*, or *Groin*, the Ear or back part of the Neck cannot be felt, the *Os Externum* must be gradually dilated in the time of the pains with the Operator's fingers (previously lubricated with Hog's-lard) till the whole Hand can be introduced into the *Vagina*, and slipped up in a flattish form between the posterior part of the *Pelvis* and Child's Head. This last is then to be raised up as high as is possible, to allow room for the Fingers to reach the Ear and posterior part of the Neck. When the position of the Head is known, the Operator must withdraw his Hand, and wait to see if the stretching of the parts will renew or increase the Labour-pains, and allow more space for the advancement of the Head in the *Pelvis*. If this however proves of no effect, the Fingers are again to be introduced as before, and one of the Blades of the Forceps (lubricated with lard) is then to be applied along the inside of the Hand or Fingers, and left Ear of the Child, as represented in the Table. But if the *Pelvis* is distorted, and projects forward at the superior part of the *Os Sacrum* and the Forehead thereof cannot be moved a little backwards, in order to turn the Ear from that part

of the *Pelvis* which prevents the End of the Forceps to pass the same, in that case I say, the Blade must be introduced along the posterior part of the Ear at the side of the distorted Bone. The Hand that was introduced is then to be withdrawn, and the Handle of the introduced Blade held with it as far back as the *Perinæum* will allow, whilst the Fingers of the other Hand are introduced to the *Os Uteri*, at the *Pubes* or right *Groin*, and the other Blade placed exactly opposite to the former. This done, the Handles being taken hold of and joined together, the Head is to be pulled lower and lower every pain till the *Vertex*, as in this Table, is brought down to the inferior part of the left *Ischium*, or below the same. The wide part of the Head being now advanced to the narrow part of the *Pelvis* betwixt the *Tuberosities* of the *Ossa Ischium*, it is to be turned from the left *Ischiûm* out below the *Pubes*, and the Forehead backwards to the concave part of the *Os Sacrum* and *Coccyx*, as in Table XVII. and afterwards the Hand brought along and delivered as in Table XVIII. and XIX. But if it is found that the delivery will require a considerable degree of force from the Head's being large, or the *Pelvis* narrow, the Handles of the Forceps are to be tied together with a Fillet, as represented in this Table, to prevent their position being changed, whilst the woman is turned on her Back as in Table XXIV. which is then more convenient for delivering the Head than when lying on the side.

This Table shews that the Handles of the Forceps ought to be held as far back as the *Os Externum* will allow, that the Blades may be in an imaginary line between that and the middle space between the *Umbilicus* and the *Scroticinus Cordis*. When the Forceps are applied along the Ears and Sides of the Head, they are nearer to one another, have a better hold, and mark less than when over the *Occipital* and *Frontal* Bones.

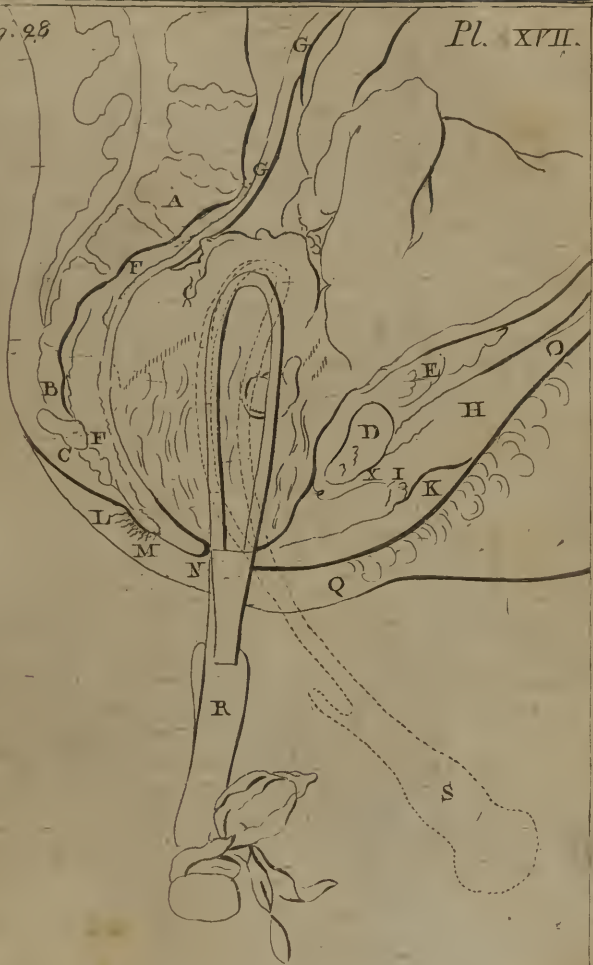
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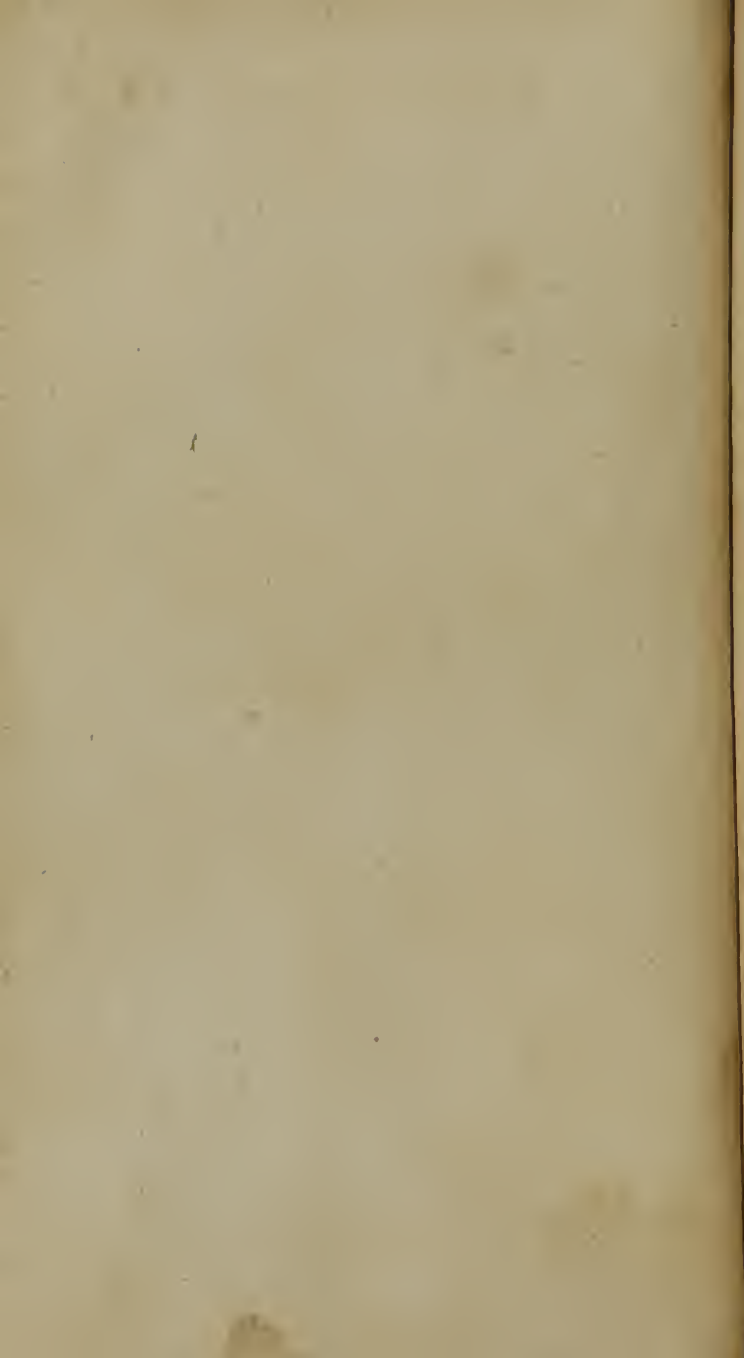
Vide Vol. I. Lib. III. Chap. 3. from Sect. 1. to 6. and Vol. II. Coll. 25, 26, 27, and 29.

THE SEVENTEENTH TABLE

In the same View with the former, represents in out-lines the Head of the *Fœtus* brought lower with the Forceps, and turned from the position in the former Table, in imitation of the natural progression by the Labour-pains, which may likewise be supposed to have made this turn, before it was necessary to assist with the Forceps, this necessity at last arising from many of the causes mentioned in Vol. I.

In this View the position of the Forceps, along the Ears and narrow part of the Head, is more particularly expressed. It appears also that when the *Vertex* is turned from the left *Os Ischiûm*, where it was closely confined, it is disengaged by coming out below the *Pubes*, and the Forehead that was pressed against the middle of the right *Os Ischiûm* is turned into the Concavity of the *Os Sacrum* and *Coccyx*. By this means the narrow part of the Head is now between the *Offa Ischiûm*, or narrow part of the *Pelvis*, and as the *Occiput* comes out below the *Pubes*, the Head passes still easier along. When the Head is advanced so low in the *Pelvis*, if the position cannot be distinguished by the Sutures, it may for the most part be known by feeling for the back part of the neck of the *Fœtus*, with a Finger introduced betwixt the *Occiput* and *Pubes*, or towards one of the *Groins*. If the Head is squeezed into a longish form, as in Table XXI. and has been detained many Hours in this position, the pains not being sufficient to complete the Delivery; the Assistance of the Forceps must be taken to save the Child, though the woman may be in no danger. But if the Head is high up





In the *Pelvis*, as in the former Table, the Forceps ought not to be used except in the most urgent necessity.

This Table also shews that the handles of the Forceps are still to be kept back to the *Perinæum*, and when in this position are in a line with the upper part of the *Sacrum*, and if held more backwards, when the Head is a little higher, would be in a line with the *Scrobiculus Cordis*. If the Forceps are applied when the Head is in this position, they are more easily introduced when the patient is in a supine position, as in Table XXIV. Neither is it necessary to tie the handles, which is only done to prevent their alteration when turning the Woman from her side to her back.

As I have had several Cases where a longer sort of Forceps that are curved upwards are of great use to help along the Head, when the Body is delivered first, as in Table XXXV. the same are represented here by dotted lines. They may be used in laborious Cases as well as the others, but are not managed with the same ease.

Most of the parts of this Table being marked with the same letters as the former, the descriptions there given will answer in this, except the following.

L. M The *Anus*,

M. N The *Perinæum*.

O The common *Integuments* of the *Abdomen*.

R The short Forceps.

S The long curved Forceps, the first of these is eleven Inches long, and the last twelve Inches and a half, which I have after several alterations found sufficient, but this need not confine others who may chuse to alter them from this standard.

Vide Table XXXVII.

THE EIGHTEENTH TABLE.

In the same View and Section of the parts, shews the Head of the *Fœtus* in the same position, but brought lower down with the Forceps than in the former Table; for in this the *Os Externum* is more open, the *Occiput* come lower down from below the *Pubes*, and the Forehead past the *Coccyx*, by which both the *Anus* and *Perinæum* are stretched out in form of a large Tumor, as in Table XV.

When the Head is so far advanced, the Operator ought to extract with great Caution, lest the parts should be torn. If the Labour-pains are sufficient, the Forehead may be kept down, and helped along in a slow manner by pressing against it with the Fingers on the external parts below the *Coccyx*: at the same time the Forceps being taken off, the Head may be allowed to stretch the *Os Externum* more and more in a gradual manner, from the force of the Labour-pains, as well as assistance of the fingers. But if the former are weak and insufficient, the assistance of the Forceps must be continued. *Vide* the description of the parts in Table XVI. S. T in this represent the left side of the *Os Uteri*. The dotted lines demonstrate the situation of the Bones of the *Pelvis* on the right side, and may serve as an Example for all the lateral Views of the same.

a. b. c. h The out lines of the *Os Illiūm*.

D. e. f The same of the *Pubis* and *Iscbiūm*.

i. i. k The *Acetabulum*. And

m. n The *Foramen Magnum*.

Vide Vol. I. Lib. III. Chap. 5. Sect. 3. Vol. II. Coll. 25.

T H E







THE NINETEENTH TABLE

In the same View and Section of the *Pelvis*, is intended by ont- lines to shew, that as the external parts are stretched, and the *Os Externum* is dilated, the *Occiput* of the *Fœtus* rises up with a semicircular turn from out below the *Pubes*, the under part of which Bones are as an Axis, or Fulcrum, on which the back part of the neck turns, whilst at the same time the Forehead and Face in their turn upwards, distend largely the parts between the *Coccyx*, and *Os Externum*. This is the method observed by Nature, in stretching these parts in Labour, and as Nature is always to be imitated, the same method ought to be followed, when it is necessary to help along the Head with the Forceps.

Vide the three former Tables for the Descriptions and References.

THE TWENTIETH TABLE.

In the same Section of the parts, but with a View of the right side ; shews the Head of the *Fœtus* in the contrary position to the three last figures, the *Vertex* being here in the Concavity of the *Sacrum*, and the Forehead turned to the *Pubes*.

A. B. The *Vertebræ* of the Loins, *Os Sacrum* and *Coccyx*

C The *Os Pubis* of the right side.

D The *Anus*.

E The *Os Externum* not yet begun to stretch.

F The *Nympha*.

G The *Labium Pudendi* of the right side.

H The Hip and Thigh.

I. I The

I. I The *Uterus* contracted, the Waters being all discharged.

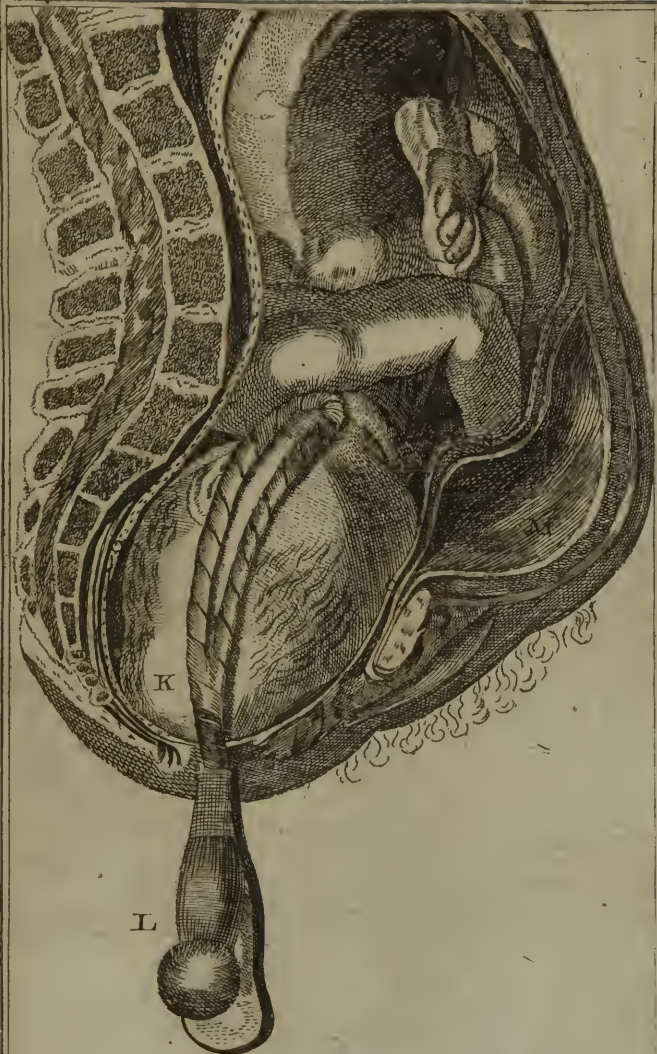
When the Head is small, and the *Pelvis* large, the *Parietal* Bones and the Forehead will, in this Case, as they are forced downwards by the Labour-pains, gradually dilate the *Os Externum*, and stretch the parts between that and the *Coccyx* in form of a large Tumor, as in Table XV. till the Face comes down below the *Pubes*, when the Head will be safely delivered. But if the same be large and the *Pelvis* narrow, the difficulty will be greater, and the Child in danger; as in the following Table.

Vide Vol. I. Lib. III. Chap. 3. Sect. 4. No. 3. Vol. II. Coll. 16. No. 2.

THE TWENTY-FIRST TABLE

Shews the Head of the *Fœtus* in the same position as in the former Table, but being much larger, it is by strong Labour-pains squeezed into a longish form with a Tumor on the *Vertex*, from the long compression of the Head in the *Pelvis*. If the Child cannot be delivered with the Labour-pains, or turned and brought footling, the Forceps are to be applied on the Head as described in this figure, and brought along as it presents; but if that cannot be done without running the risque of tearing the *Perinæum*, and even the *Vagina* and *Rectum* of the Woman, the Forehead must be turned backwards to the *Sacrum*. To do this more effectually, the Operator must grasp firmly with both Hands the handles of the Forceps, and at the same time pushing upwards raise the Head as high as possible, in order to turn the Forehead to one side, by which it is brought into the natural position; this done the Head may be brought down and delivered as in Table XVI. &c.

Vide





Vide Vol. I. Lib. III. Chap. 3. Sect. 4. No. 2. Vol. II. Coll. 28. also the former Table for the Description of the parts, except

K. The Tumor on the *Vertex*. The same compression and elongation of the Head as well as the Tumor on the *Vertex*, may be supposed to happen in a greater or less degree in the XVI. XVII. XVIII. XIX. Tables as well as in this, where the Difficulty proceeds from the Head being large, or the *Pelvis* narrow. *Vide* Tables XXVII. and XXVIII.

L The Forceps. Sometimes the Forehead may be moved to the natural position by the assistance of the Fingers, or only one Blade of the Forceps. The Forceps may either be the straight kind, or such as are curved to one side, when it is necessary to use one or both Blades.

M The *Vesica Urinaria* much distended with a large quantity of *Urine*, from the long pressure of the Head against the *Urethra*, which shews that the *Urine* ought to be drawn off with a *Catheter* in such extraordinary Cases before you apply the Forceps, or in præternatural Cases, where the Child is brought footling.

N The under part of the *Uterus*.

O. O The *Os Uteri*.

THE TWENTY-SECOND TABLE

Shews in a front View of the parts, the Forehead of the *Fætus* presenting at the Brim of the *Pelvis*, the Face being turned to one side, the *Fontanelle* to the other, and the Feet and Breech stretched towards the *Fundus Uteri*.

A. A The superior part of the *Ossa Ilium*.

B The *Anus*.

E

C The

C The *Perinæum*.

D The *Os Externum*, the thickness of the posterior part before it is stretched with the Head of the Child.

E. E. E The *Vagina*.

F The *Os Uteri* not yet fully dilated.

G. G. G The *Uterus*.

H The *Membrana Adiposa*.

If the Face is not forced down, the Head will sometimes come along in this Manner, in which Case the *Vertex* will be flattened, and the Forehead raised in a conical Form, and when the Head comes down to the lower part of the *Pelvis*, the Face or *Occiput* will be turned from the side, and come out below the *Pubes*. But if the Head is large and cannot be delivered by the pains, or if the wrong position cannot be altered, the Child must, if possible, be brought footling; or delivered with the Forceps.

Vide Vol. I. Lib. III. Chap. 2. Sect. 3. Chap. 3. Sect. 4. No. 3. Vol. II. Coll. 16. No. 4. Coll. 28.

THE TWENTY - THIRD TABLE

Shews in a lateral View the Face of the Child presenting, and forced down into the lower part of the *Pelvis*, the Chin being below the *Pubes*, and the *Vertex* in the Concavity of the *Os Sacrum*: the Waters likewise being all discharged, the *Uterus* appears closely joined to the Body of the Child. round the Neck of which is one circumvolution of the *Funis*.

A.B The *Vertebræ* of the Loins, *Os Sacrum*, and *Coccyx*.

C The *Os Pubis* of the left side.

D The inferior part of the *Rectum*.

E The *Perinæum*.

F The left *Labium Pudendi*.

G.G.G The





G.G.G The *Uterus*.

When the *Pelvis* is large, the Head, if small, will come along in this position, and the Child be saved; for as the Head advances lower, the Face and Forehead will stretch the parts between the *Frænum Labiorum* and *Coccyx* in form of a large Tumor. As the *Os Externum* likewise is dilated, the Face will be forced through it, the under part of the Chin will rise upwards over the anterior part of the *Pubes*, and the Forehead, *Vertex*, and *Occiput*, turn up from the parts below. if the Head however is large, it will be detained either when higher or in this position. In this Case, if the position cannot be altered to the natural, the Child ought to be turned, and delivered footling. If the *Pelvis* however is narrow, and the Waters not all gone, the *Vertex* should, if possible, be brought to present; but if the *Uterus* is so closely contracted, that this cannot be affected, on account of the strong pressure of the same, and slipperiness of the Child's Head, in this case the Method directed in the following Table is to be taken.

THE TWENTY-FOURTH TABLE

Represents in the lateral View. the Head of the *Fœtus* in the same position as in the former Table; but the delivery is supposed to be retarded from the largeness of the Head, or a narrow *Pelvis*.

In this Case, if the Head cannot be raised, and pushed up to the *Uterus*, it ought to be delivered with the Forceps, in order to save the Child. This position of the Chin to the *Pubes* is one of the safest cases, where the Face presents and is most easily delivered with the Forceps, the manner of introducing of which over the Bars is shown in this Table.

THE

The Patient must lie on her Back with her Breech a little over the Bed, her Legs and Thighs being supported by an assistant sitting on each side. After the parts have been slowly dilated with the Hand of the Operator, and the Forceps introduced, and properly fixed along the Ears of the Child, the Head is to be brought down by degrees, that the parts below the *Os Externum* may be gradually stretched: the Chin then is to be raised up over the *Pubes*; whilst the Forehead, *Fontanelle*, and *Occiput*, are brought out slowly from the *Perinæum* and *Fundament* to prevent the same from being hurt or lacerated. But if the *Fætus* can neither be turned, nor extracted with the Forceps, the delivery must be left to the Labour-pains, as long as the Patient is in no danger; but if danger is apparent, the Head must be delivered with the curved Crotchets. *Vide* Table XXXIX.

When the face presents, and the Chin is to the side of the *Pelvis*, the Patient must lie on her side and after the Forceps are fixed along the Ear the Chin is to be brought down to the lower part of the *Os Ischium*, and then turned out below the *Pubes*, and delivered in a slow manner as above.

Vide Vol. II. Coll. 16. No. 6. as also Tables XVI. XVII. XVIII. and XIX. for the Description of the parts,

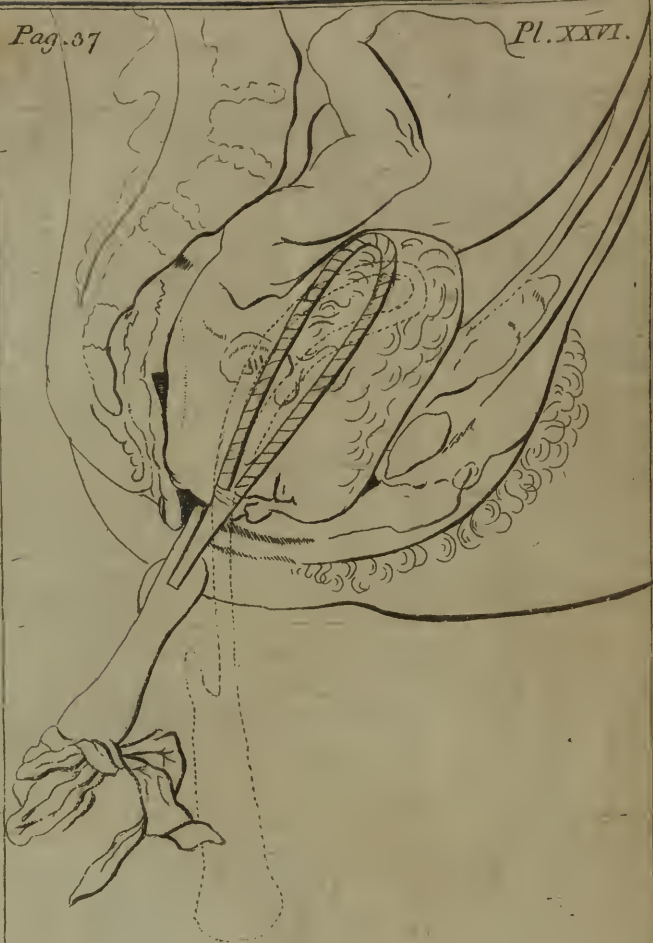
THE TWENTY-FIFTH TABLE

Shews in a lateral View the right side, the Face of the *Fætus* presenting, as in Table XXIII. but in the contrary position, that is, with the Chin to the *Os Sacrum*, and the *Bregma* to the *Pubes*, the Waters evacuated, and the *Uterus* contracted.

A The *Os Externum* not yet begun to stretch.

B The *Anus*. *Vide* Table XX. for the further Description of the parts.





In such Cases, as well as in those of the last mentioned Table, if the Child is small, the Head will be pushed lower with the Labour-pains, and gradually stretch the lower part of the *Vagina*, and the external parts, by which means the *Os Externum* will be more and more dilated, till the *Vertex* comes out below the *Pubes*, and rises up on the outside ; in which case the delivery is then the same, as in natural Labours. But if the Head is large, it will pass along with great Difficulty, whence the Brain, and Vessels of the Neck, will be so much compressed and obstructed, as to destroy the Child. To prevent which, if called in time, before the Head is far advanced in the *Pelvis*, the Child ought to be turned, and brought footling. If the Head however is low down, and cannot be turned, the delivery is then to be performed with the Forceps, either by bringing along the Head as it presents, or as in the following Table. See the References in the preceding Table.

THE TWENTY-SIXTH TABLE

Represents by out-lines in a lateral View of the left side of the Subject, the *Fœtus* in the same Situation as in the former Table.

The Head is here squeezed into a very oblong form, and though forced down so as fully to dilate the *Os Externum*, yet the *Vertex* and *Occiput* cannot be brought so far down, as to turn out from below the *Pubes* (as in the foregoing Table,) without tearing the *Perinæum* and *Anus*, as well as the *Vagina* and *Rectum*.

The best method in this case, after either the short or long curved Forceps have been applied along the Ears (as represented in the Table,) is to push the Head as high up in the *Pelvis* as is possible, after which the Chin is to be turned,

turned from the *Os Sacrum* to either *Os Ischiûm*, and afterwards brought down to the inferior part of the last mentioned Bone. This done, the Operator must pull the Forceps with one Hand, whilst two Fingers of the other are fixed on the lower part of the Chin or Under-jaw, to keep the Face in the middle, and prevent the Chin from being detained at the *Os Ischiûm*, as it comes along, and in this manner move the Chin round with the Forceps, and the above Fingers, till brought under the *Pubes*, which done the Head will be easily extracted; as in Table XXIV.

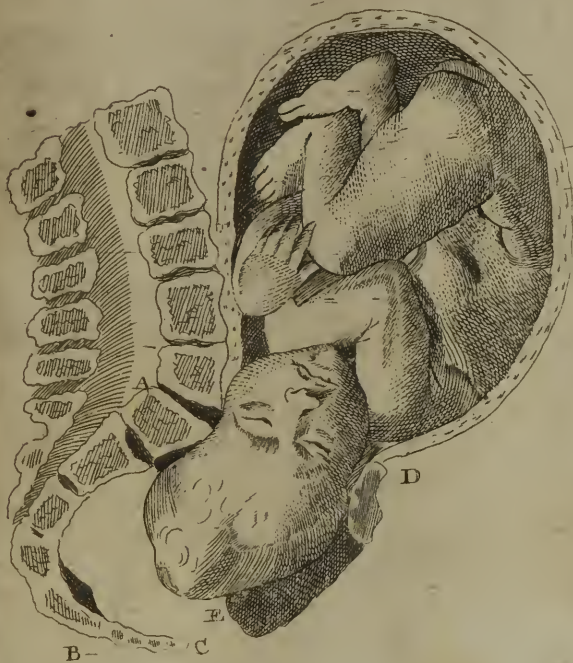
If, before assistance has been called, the Head is so squeezed down into the *Pelvis*, that it is impossible to move the Chin from the *Sacrum* to either *Os Ischiûm*, so as to deliver with the Forceps for the Safety of the Child, the Operator must wait with Patience, as long as the Woman is not in danger, or there is no certainty of the death of the *Fœtus*: But if the Patient runs the least risque, the Head must be delivered with the Crotchet.

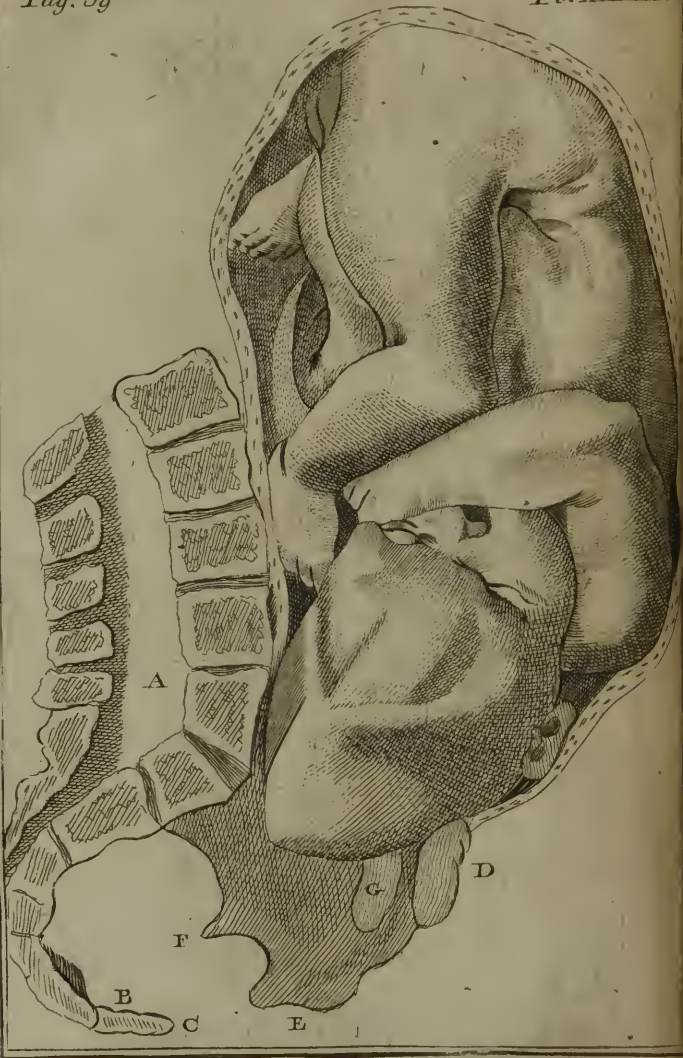
In general, with respect to the posture of the Woman in the application of the Forceps, when the Ears are to the sides of the *Pelvis*, the Forceps, as was observed in Table XXIV. are most easily introduced when the Patient lies upon her Back, and her Breech over the side of the Bed; but when the Ear is to the *Pubes* or *Groin*, they are better applied when the Patient lies on her side, as was observed in the cases where the *Vertex* presented.

Vide Table XXIV. for the Description of the Parts and the References, also Table XXXIX. for the manner of using the Crotchet.

THE TWENTY - SEVENTH TABLE.

Gives a lateral internal View of a distorted *Pelvis*, divided longitudinally.





longitudinally, with the Head of a *Fœtus* of the seventh Month passing the same. *Vide* the Explanation of Table III.

A.B.C The *Os Sacrum* and *Coccyx*.

D The *Os Pubis* of the left side.

E The *Tuberosity* of the *Os Ischiûm*, of the same side.

The Head of the *Fœtus* here, though small, is with difficulty squeezed down into the *Pelvis*, and changed from a round to an oblong Form, before it can pass, there being only the Space of two Inches and one quarter between the projection of the superior part of the *Sacrum*, and the *Offa Pubis*. If the Head is soon delivered, the Child may be born alive : but if it continues in this manner many Hours, it is in danger of being lost, on account of the long pressure of the Brain. To prevent which, if the Labour-pains are not sufficiently strong, the Head may be helped along with the Forceps, as directed in Table XVI.

This figure may serve as an example of the extreme degree of distortion of the *Pelvis*, between which, and the well-formed one, are many intermediate degrees; according to which the Difficulty of Delivery must increase, or diminish, as well as from the disproportion of the *Pelvis* and Head of the *Fœtus*; all which Cases require the greatest Caution, both as to the Management and Safety of the Mother and Child.

Vide Vol. I. Lib. III. Chap. 2. Sect. 3. No. 5. Chap. 3. Sect. 4. No. 3. Vol. II. Coll. 21. No. 1. and Coll. 29.

THE TWENTY-EIGHTH TABLE

Gives a side View of a distorted *Pelvis*, as in the former Table, with the Head of a full-grown *Fœtus*, squeezed into

into the Brim, the *Parietal* Bones decussating each other, and compressed into a conical Form.

A.B.C The *Os Sacrum* and *Coccyx*.

D The *Os Pubis* of the left side.

E The *Tuberosity* of *Os Ischiûm*.

F The *Processus Acutus*.

G The *Foramen Magnum*.

This Table shews the impossibility in such a case to save the Child, unless by the *Cæsarian* Operation, which however ought never to be performed, excepting when it is impracticable to deliver at all by any other method. Even in this case, after the upper part of the Head is diminished in bulk, and the Bones are extracted, the greatest Force must be applied in order to extract the Bones of the Face, and Basis of the Skull, as well as the Body of the *Fætus*.

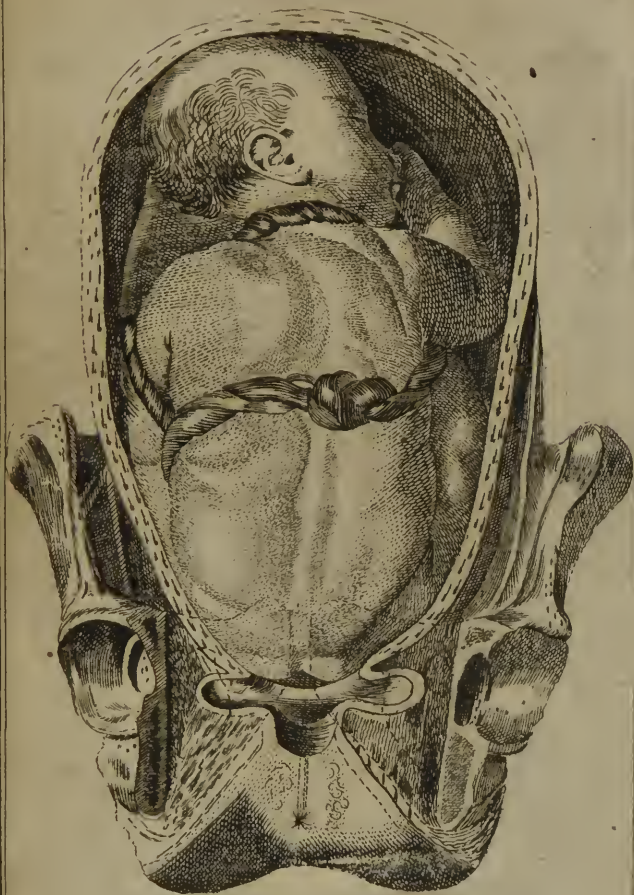
Vide Vol. I Lib. III. Chap. 3. Sect. 7. Chap. 5. Sect. 3. and Vol. III. Coll. 31. 39.

THE TWENTY-NINTH TABLE

Represents in a front View of the *Pelvis*, as in Table XXII. the Breech of the *Fætus* presenting, and dilating the *Os Internum*, the *Membranes* being too soon broke. The fore-parts of the Child are to the posterior part of the *Uterus*, and the *Funis* with a knot upon it surrounds the Neck, Arm, and Body.

Some time after this and the following Tables were engraved, Dr, *Kelly* shewed me a Subject he had opened, where the Breech presented itself, and lay much in the same position with its Body as in the Ninth Table, supposing the Breech in that Figure, turned down to the *Pelvis*, and the Head up to the *Fundus Uteri*.

I have sometimes felt, in these Cases, [when Labour was begun, and before the Breech was advanced into the *Pelvis*]





one Hip at the *Sacrum*, the other resting above the *Os Pubis*, and the private Parts to one Side; but before they could advance lower, the *Nates* were turned to the sides and wide part of the Brim of the *Pelvis*, with the private parts of the *Sacrum*, as in this Table; though sometimes to the *Pubes*, as in the following Table. As soon as the Breech advances to the lower part of the Basin, the Hips again return to their former position, *viz.* one Hip turned out below the *Os Pubis*, and the other at the back Parts of the *Os Externum*.

N. B. In this case the Child, if not very large, or the *Pelvis* narrow, may be often delivered alive by the Labour-pains; but if long detained at the inferior part of the *Pelvis*, the long pressure of the *Funis* may obstruct the circulation. In most Cases where the Breech presents, the effect of the Labour-pains ought to be waited for, till at least they have fully dilated the *Os Internum* and *Vagina*, if the same have not been stretched before with the Waters and *Membranes*. In the mean time, whilst the Breech advances, the *Os Externum* may be dilated gently during every pain, to allow room for introducing a Finger or two of each Hand to the outside of each Groin of the *Fœtus*, in order to assist the Delivery when the *Nates* are advanced to the lower part of the *Vagina*. But if the *Fœtus* is larger than usual, or the *Pelvis* narrow, and after a long time, and many repeated pains, the Breech is not forced down into the *Pelvis*, the Patient's Strength at the same time failing, the Operator must in a gradual manner open the Parts, and having introduced a Hand into the *Vagina*, raise or push up the Breech of the *Fœtus*, and bring down the Legs and Thighs. If the *Uterus* is so strongly contracted that the Legs cannot be got down, the largest end of the blunt Hook is to be introduced, as directed in Table XXXVII. As soon as the Breech or Legs are brought down, the Body and Head are to be delivered as described in the next Table, only there is no Necessity here to alter the position of the Child's Body.

Vide Vol. I. Lib. III. Chap. 4. Sect. 1. 2. Vol. III. Coll. 32.

The description of the Parts in this, and the following Table, is the same as in Table XXII. only the dotted Lines in this describe the place of the *Offa Pubis*, and anterior parts of the *Offa Ischium* which are removed, and may serve in this respect, as an example for all the other front Views, where, without disfiguring the Table, they could not be so well put in.

THE THIRTIETH TABLE

Shews, in the same View, and with the same References as in the former, the Breech of the *Fœtus* presenting, with this Difference however, that the fore-parts of the Child are to the fore-part of the *Uterus*. In this Case when the Breech coming double as it presents is brought down to the Hams, the Legs must be extracted, a Cloth wrapped round them, and the fore-parts of the Child turned to the back-parts of the Woman. If a Pain should in the mean time force down the Body of the Child, it ought to be pushed up again in turning, as it turns easier when the Belly is in the *Pelvis*, than when the Breast and Shoulders are engaged, and as sometimes the Face and Forehead are rather towards one of the Groins, a quarter turn more brings these parts to the side of the *Pelvis*, and a little backwards, after which the Body is to be brought down. If the Child is not large, the Arms need not be brought down, and the Head may be delivered by pressing back the Shoulders and Body of the Child to the *Perinæum*, and whilst the Chin and Face are within the *Vagina*, to bring the *Occiput* out from below the *Pubes*, according to *Dawenter's* method. Or the Operator may introduce a Finger or two into the Mouth, or on each side of the Nose, and supporting the Body on the same Arm, fix two Fingers of the other Hand over the Shoulders, on each





each side of the Child's Neck, and in this manner raise the Body over the *Pubes*, and bring the Face and Forehead out with a semicircular turn upwards, from the under part of the *Os Externum*. All this may be easily done when the Woman lies on her Side but if the Child is large, and the *Pelvis* narrow, it is better to turn the Patient on her Back, as described in Table XXIV. and after the Legs and Body are extracted as far as the Shoulders, the Arms are to be cautiously brought down, and the Head delivered. If the Woman has strong pains, and when by the felt Pulsation of the Vessels of the *Funis Umbilicalis*, or the struggling Motions of the *Fœtus*, it is certain that the Child is still alive, wait with patience for the Assistance of the Labour; but if that and the Hand are insufficient, and the Pulsation of the *Funis* turns weaker, and if the Child cannot be brought double, the Breech must be pushed up, and if the Resistance of the *Uterus* is so great, as to prevent the Extraction of the Legs, the Patient ought to be turned on her Knees and Elbows. When the Legs are thus brought down, the Woman, if needful, is to be again turned to her Back, to allow more Freedom to deliver the Body and Head, as before described. If the Head after several Trials cannot be delivered, without endangering the Child, from overstraining the Neck, the long curved Forceps ought to be applied, as in Table XXXV. If these fail, and the Patient is not in Danger, some Time may be allowed for the Effect of the Labour-pains, which likewise proving insufficient, the Crotchet must be used as in Table XXXIX. and when it is certain that the Child is dead, or that there is no Possibility of saving it.

THE THIRTY-FIRST TABLE

Represents, in a front View of the *Pelvis*, the *Fœtus* compressed by the Contraction of the *Uterus* into a round form, the fore-parts of the former being towards the inferior part

part of the latter, and one Foot and Hand fallen down into the *Vagina*. In this figure the anterior part of the *Pelvis* is removed by a longitudinal Section through the middle of the *Foramen Magnum*.

A. A. The superior parts of the *Offa Ilium*.

B. B. The *Uterus*.

C The Mouth of the *Womb* stretched, and appearing in O.O.Q.O The *Vagina*.

D The inferior and posterior part of the *Os Externum*.

E.E.E.E The remaining parts of the *Offa Pubis* and *Ishium*.

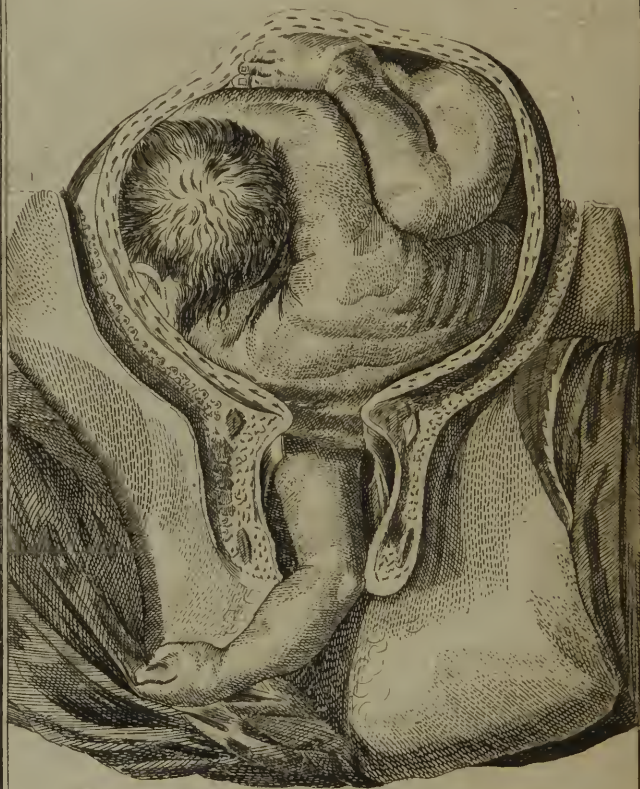
F.F.F.F The *Membrana Adiposa*.

This and the three following Tables representing four different præternatural positions of the *Fætus* in *Utero*, may serve as Examples for the manner of Delivery in these as well as in all other præternatural Cases.

In all præternatural Cases, the *Fætus* may be easily turned and delivered by the Feet, if known before the *Membranes* are broke, and the Waters discharged; or if the *Pelvis* is narrow, and the Patient is strong, the Head, if large, may be brought down so as to present in the natural Way: but if all the Waters are discharged, and the *Uterus* is strongly contracted to the Body of the *Fætus*, this last Method can seldom take place, on account of the strong Pressure of the *Uterus*, and Slipperiness of the Child's Head.

In the present Case, the Woman may either be laid on her Back or Side, as described in Tables XVI. and XXIV. and the Operator having slowly dilated the *Os Externum* with his Fingers, must introduce the same into the *Vagina*, and push up into the *Uterus* the parts of the *Fætus* that present; or if there is space for it, his Hand may pass in order to dilate the *Os Internum* if not sufficiently stretched previously by the *Membranes* and Waters. This done he must
advance





advance his Hand into the *Uterus*, to know the position of the *Fætus*, and as the Breech is rather lower than the Head, search for the other Leg, and bring down both Feet without the *Os Externum*. A Cloth must then be wrapped round them. and having grasped them with one Hand, he is to introduce the other into the *Uterus*, in order to raise the Head of the *Fætus*, whilst the Legs and Thighs are pulled down by the Hand that holds the Feet. When the Head is raised, and does not fall down again, the Hand of the Operator may be withdrawn from the *Uterus*, and the Delivery completed, as directed in the two former Tables. By the artless method of taking hold and pulling one or both Feet, the Breech may come down and the Head rise to the *Fundus*, but if this should not happen, there will be great danger of overstraining the *Fætus*, which is prevented by the former method. If the *Membranes* are broken, before the *Os Uteri* is largely opened, and the Hand of the Operator cannot be introduced, which sometimes happens in a first Pregnancy, the parts of the *Fætus* should be allowed to protrude still further, by which means the rigidity of the *Os Internum* will in time be lessened.

Vide Vol. I. and III. on præternatural Labours.

THE THIRTY-SECOND TABLE

Represents in the same View with the former, the *Fætus* in the contrary Position ; the Breech and fore-parts being towards the *Fundus Uteri*, the left Arm in the *Vagina*, and fore Arm without the *Os Externum*, the Shoulder being likewise forced into the *Os Uteri*.

The Operator in this Case must introduce his Fingers between the back part of the *Vagina* and the Arm of the *Fætus*, in order to raise the Shoulder and make room for passing his Hand into the *Uterus* to distinguish the Position. This being known, he ought to push up the shoulder to that
part

part of the *Uterus*, where the Head is lodged, in order to raise the same to the *Fundus*. If the Body of the *Fætus* does not move round, and thereby lie in a more convenient Position for bringing down the Legs, the Hand of the Operator ought to be pushed up still higher to search for, and take hold of the Feet, which are to be brought down as far as is possible. If this should not change the Position, the Shoulder is to be pushed up, and the Legs pulled down alternately, till they are brought down into the *Vagina*, or without the *Os Externum*, after which the Delivery may be completed as in the former Case.

If the Feet cannot be brought down lower than into the *Vagina*, a Noose may be introduced over both Ankles, by which the Legs are brought lower by pulling the Noose with one Hand whilst the other, previously introduced into the *Uterus*, pushes up the Shoulders and Head. By this double force the position of the *Fætus* is to be altered, and the Delivery effected. In these Cases, as the Shoulder is raised to the *Fundus*, the Arm commonly returns into the *Uterus*; but if the Arm is so swelled as to prevent the introduction of the Operator's Hand, and cannot be folded up or returned into the *Uterus*, it must be taken off at the Shoulder, or Elbow, in order to deliver and save the Woman. If both Arms come down, when the Breast presents, the Methods above described are to be used.

Vide the Explanations and References of the foregoing Table to illustrate this and the following.

THE THIRTY-THIRD TABLE

Exhibits in the same View likewise of the *Pelvis* with the former, a third Position of the *Fætus* when compressed into the round Form, the Belly, *viz.* or *Umbilical* Region, presenting at the *Os Internum*, and the *Funis* fallen down into the *Vagina*, and appearing at the *Os Externum*.

The





The delivery in this Case is to be effected as in the former Table, by pushing up the Breast, and bringing down the Legs. When the Belly presents, it is easier coming at the Legs, than when the Breast presents, because in the former Case the Head is nearer to the *Fundus Uteri*, and the Legs and Thighs lower. If the Belly or Breast is forced down into the lower part of the *Pelvis*, the Child will be in danger from the bending of the *Vertebrae*, and the Pressure of the spinal Marrow, so great Force is also required to raise these Parts up into the *Uterus*, in order to come at the Feet, that it will sometimes be necessary to turn the Woman to her Knees and Elbows, to diminish the Resistance of the *Abdominal Muscles*. When the *Funis* comes down without the *Os Externum*, if there is a Pulsation felt, it must immediately be replaced, and kept warm in the *Vagina*, to preserve the Circulation, and prevent a Stagnation, from its being exposed to the cold Air. If the *Funis* comes down when the Head presents, the Child is in danger if not speedily delivered with the pains, or brought footling.

See the two former Tables for the Explanations and References.

THE THIRTY-FOURTH TABLE

Shews, in a lateral View of the *Pelvis*, one of the most difficult præternatural Cases. The left Shoulder, Breast, and Neck of the *Fætus* presenting, the Head reflected over the *Pubes* to the right Shoulder and Back, and the Feet and Breech stretched up to the *Fundus*, the *Uterus* contracted at the same time, in form of a long Sheath round the Body of the *Fætus*.

A.B.C The *Os Sacrum* and *Coccyx*.

D The *Os Pubis* of the left side.

E Part of the *Urinary Bladder*.

F The *Rectum*.

H.I.K The

H.I.K The Private Parts.

M The *Anus*.

M.N The *Perinæum*.

V The *Meatus Urinarius*.

O The *Os Uteri* not yet opened, and situated backwards towards the *Rectum* and *Coccyx*.

R. S The same represented in dotted Lines, as opened when the Labour is begun.

T. U The same more fully dilated, but nearer the posterior than anterior part of the *Pelvis*.

W. P The same not fully stretched at the Fore-part, though intirely obliterated at the Back-part, the *Uterus* and *Vagina* being there only sometimes one continued Surface.

Hence it appears why the anterior part of the *Os Uteri* is frequently protruded before the Head of the *Fœtus* at the *Pubes*, which, if it retards Delivery, is removed by sliding it up with a Finger or two between the Head and last-mentioned Part. *Vide* Tables IX. X. XI. XII. XIII.

The manner of Delivery in the Position of the *Fœtus*, as represented in this Table, is to endeavour with the Hand to force up the part presenting in order to raise the Head to the *Fundus*. If this is impossible from the strong Contraction of the *Uterus*, the Operator must push up his Hand in a slow and cautious manner along the Breast and Belly of the Child, in order to come at the Legs and Feet, which are to be taken hold of, and brought down as far as the Position of the *Fœtus* will admit of. The Body is then to be moved round by pushing up the lower Parts, and pulling down the upper, till the Feet are brought without the *Os Externum*, and the Delivery completed as in Table XXXI. But if the Feet cannot be got down, so as to be taken hold of without the *Os Externum*, a Noose must be fixed over the Ankles, as in Table XXXII.

Vide Vol. I. and III. as directed in Table XXXI.

T H E





THE THIRTY-FIFTH TABLE

Shews, in a lateral View of the *Pelvis*, the Method of assisting the Delivery of the Head of the *Fœtus* with the long curved Forceps, in præternatural Cases, when it cannot be done with the Hands, as described in Tables XXIX. and XXX.

A The three lowest *Vertebræ* of the Loins, with the *Os Sacrum* and *Coccyx*.

B The *Os Pubis* of the left Side.

C.C The *Perinæum* and *Anus* pressed backwards with the Forceps.

D The *Intestines*.

E.E The *Parietes* of the *Abdomen*.

F.F.F The *Uterus*.

G The posterior part of the *Os Uteri*.

H The *Rectum*.

I The *Vagina*.

After the Body and Arms of the Child are delivered, and the different Methods used to bring down the Head with the Hands, as directed in the above Table, and more fully described in Vol. I. and III. the following Method is to be tried in order to save the Child, which must otherwise be lost by overstraining the Neck and spinal Marrow. The Woman being in the Supine Position, as in Table XXIV. one of the assistants ought to hold the Body and Arms of the Child up towards the *Abdomen* of the Woman, to give more room to the Operator, who having introduced one Hand up to the Child's Face, and moved it from the Side a little backwards, for the easier application of the Forceps along the Sides of the Head, must then turn his hand to one of the Ears, and introduce one of the Blades with the other hand between the same and the Head, with the curved Side towards the *Pubes*, as in this Table. This done, the hand is to be brought down to hold the Handle of the Blade of the Forceps, till the other Hand is introduced to the other side of the Head, by which means the same is pressed against the Blade that is up, and which is thus prevented from slipping,

G

while

whilst the other Hand introduces the second Blade on the opposite Side. The Blades being thus introduced, care must be taken, that in joining them no part of the *Vagina* is locked in. After the Forceps are firmly fixed along the Sides of the Head, the Face and Forehead must be turned again to the Side of the Brim of the *Pelvis*, by which means the wide part of the Head is to the wide part of the Brim. This done the Head is to be brought lower, and the Force gradually increased, according to the Resistance from the largeness of the Head, or narrowness of the *Pelvis*. The Forehead, when brought low enough down, is then to be turned into the Concavity of the *Os Sacrum* and *Coccyx*, the Handles of the Forceps raised upwards, and the same Caution used in bringing the Head through the *Os Externum*, as described in Table. XIX. and XXX. By this Method the Head will be delivered, the Child frequently saved, and the use of the Crotchet prevented, except in those Basins that are so narrow, that it is impossible to deliver without diminishing the Bulk of the Head.

Vide Table XXXIX. also Vol. I. Lib. III. Chap. 4. Sect. 5. Vol. III. Coll. 34. 35.

THE THIRTY-SIXTH TABLE

Represents, in a lateral View of the *Pelvis*, the Method of extracting with the Assistance of a curved Crotchet, the Head of the *Fœtus*, when left in the *Uterus*, after the Body is delivered and separated from it; either by its being too large, or the *Pelvis* too narrow.

A. B. C The *Os Sacrum* and *Coccyx*.

D The *Os Pubis* of the left Side.

E. E The *Uterus*.

F The locking part of the Crotchet.

g. h. i The point of the Crotchet on the Inside of the *Cranium*.

If this Case happens from the Forehead's being towards the *Pubes*, or the Child long dead, and so mortified that both the Body and Under-jaw are separated unexpectedly, the





the long Forceps that are curved upwards will be sufficient to extract the Head ; but if the same is large, and the *Pelvis* narrow, and the Delivery cannot be effected by the above Method, then the Head must be opened, that its bulk may diminish, as it is extracted. The Patient being placed either on her Back, or Side, as in the Explanation of Table XVI. and XXIV. the left hand of the Operator is to be introduced into the *Uterus*, and the Forehead of the *Fœtus* turned to the right Side of the Brim of the *Pelvis*, and a little backwards, the Chin being downwards ; after which the palm of the hand and fingers are to be advanced as high as the *Fontanelle*, and the Head grasped with the thumb and little finger on each side, as firm as is possible, whilst an assistant presses on each side of the *Abdomen* with both hands, to keep the *Uterus* firm in the middle and lower part of the same. This done, the Operator having with his right hand introduced and applied the Crotchet to the Head (the point being turned towards the Forehead, and the convex part towards the *Sacrum*), he must go up along the inside of the left hand as high as the *Fontanelle*, and there, or near it, fix the point of the Crotchet, keeping still the left hand in the former position, till with the other he pierces the *Cranium* with the point of the Instrument, and tears a large opening in it from K to I ; after this, keeping the Crotchet steady, he may slide down his left hand in a cautious manner, lest the former position should be altered, and the Head will sink lower down by the assistant's pressing on the *Abdomen*. The two fore-fingers of the left hand are then to be introduced into the Mouth, and the thumb below the Under-jaw, the hand being above the blade of the Crotchet. When this firm hold is taken, the Operator may begin and pull slowly with both hands, and as the Brain discharges through the perforation, the Head will diminish, and come along. If this Method should fail from the Slipperiness of the Head, or its being so much ossified that a sufficient opening cannot be made, the *Vertex* must be turned down to the Brim of the *Pelvis*, the *Fontanelle* backwards, and each blade of the long Forceps introduced along the sides of the Head, with

the curved side towards the *Pubes*. After they have joined and locked, the handles are to be tied together with a fillet, to keep them firm on the Head, an assistant is to keep the handles backwards till the *Cranium* is largely opened with the long Scissars shewn in Table XXXIX. This done, the Head is to be extracted in a slow manner, first turning the Forehead to the side of the Brim, and as the Brain evacuates, and the Head comes lower down, again turning the Forehead into the Concavity of the *Sacrum*, and completing the Delivery as in Table XVI.

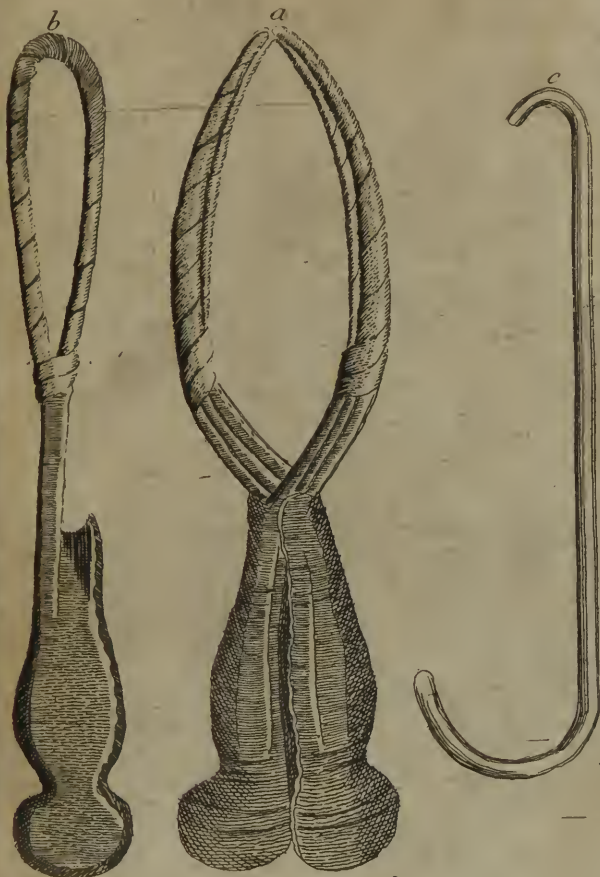
This Table may also serve as an Example, to shew the Method of fixing the Crotchet on the Head, when although the Body is not separated from it, yet it cannot be delivered with the Operator's hands or the long Forceps, as in Table XXIX. and XXXV.

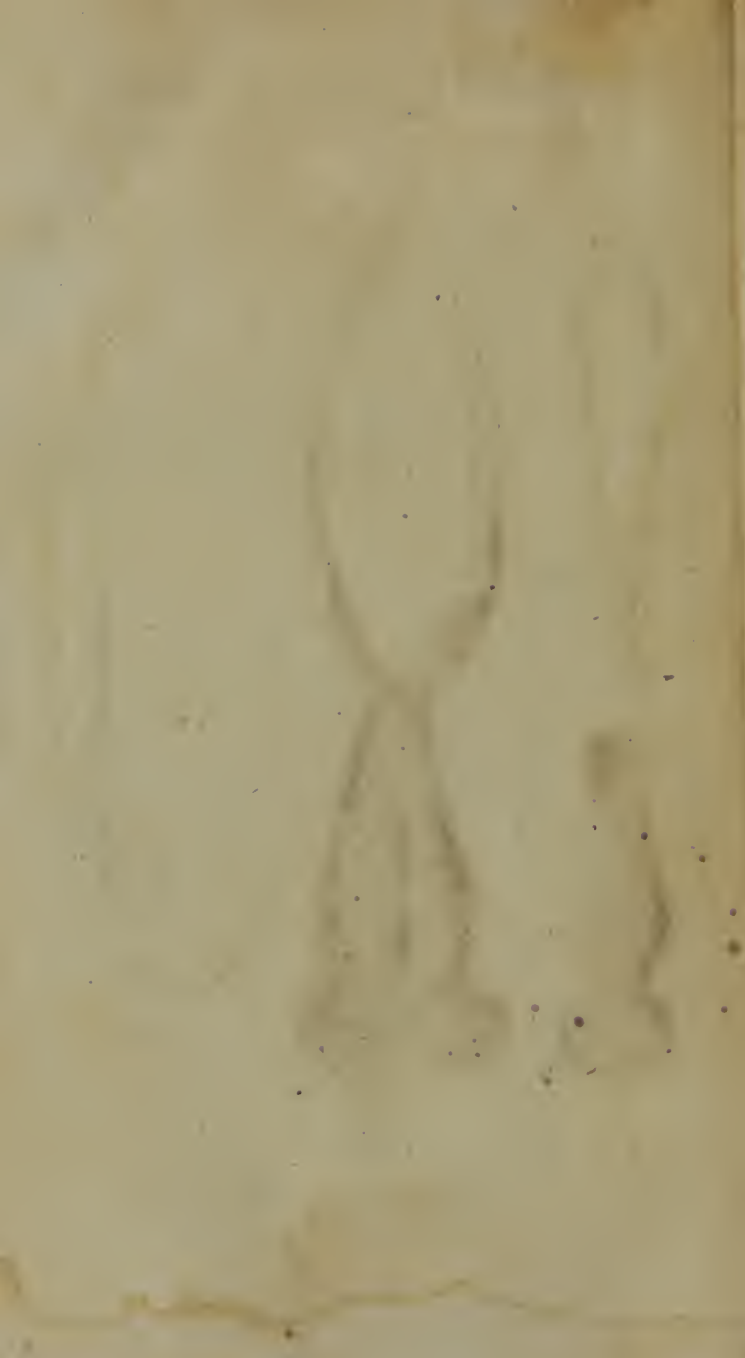
Vide Vol. I. Lib. III. Chap. 3. Sect. 7. Chap. 4. Sect. 5. also Vol. III. Coll. 31. 36.

THE THIRTY-SEVENTH TABLE

With the two following, represents several kinds of Instruments useful in labourious and difficult Cases.

A The straight short Forceps, in the exact proportion as to the width between the Blades and length from the points to the locking part : the first being two and the second six inches, which with five Inches and a half (the length of the handles), makes in all eleven Inches and a half. The length of the handles may be altered at pleasure. I find, however, in practice that this standard is the most convenient, and with less difficulty introduced, than when longer, having also sufficient force to deliver in most Cases, where their assistance is necessary. The handles and the lowest part of the Blades may as here be covered with any durable Leather, but the Blades ought to be wrapped round with something of a thinner kind, which may be easily renewed when there is the least suspicion of venereal Infection in a former Case ; by being thus covered, the Forceps have a better hold, and mark less the Head of the Child. For
their





their easier introduction, the Blades ought likewise to be greased with Hog's-lard.

B Represents the posterior part of a single Blade, in order to shew the width and length of the open part of the same, and the form and dimensions of the whole. The handles however as here represented are rather too large.

Vide Table XXI. for the figure and dimensions of the long Forceps, that are curved upwards, and covered in the same manner as the former.

The Forceps were at first contrived to save the *Fœtus*, and prevent, as much as possible, the use of sharp Instruments ; but even to this salutary method recourse ought not to be had but in Cases where the degree of force requisite to extract will not endanger by its consequences the life of the Mother. For, by the imprudent use of the Forceps, much more harm may be done than good.

See the Explanation of Table XVI. also the Preface to Vol. II. with the Cases in the Collection on that Subject.

C The Blunt Hook which is used for three purposes.

First, To assist the extraction of the Head after the *Cranium* is opened with the Scissars, by introducing the small end along the Ear on the outside of the Head to above the Under-jaw, where the point is to be fixed ; the other extremity of the Hook being held with one hand, whilst two fingers of the other are to be introduced into the foresaid opening, by which holds the Head is to be gradually extracted.

Secondly, The small end is useful in abortions in any of the first four or five Months to hook down the *Secundines*, when lying loose in the *Uterus*, when the Patient is much weakened by Floodings from the too long retention of the same, the pains also being unable to expel them, and when they cannot be extracted with the fingers. But if the *Placenta* still adheres, it is dangerous to use this or any other Instrument to extract the same, as it ought to be left till it separates naturally. If a small part of the *Secundines* is protruded through the *Os Uteri*, and pulled away from what
still

fill adheres in the *Uterus*, the mouth of the *Womb* contracts, and that irritation is thereby removed which would have continued the pains, and have separated and discharged the whole.

Thirdly, The large Hook at the other end is useful to assist the extraction of the Body, when the Breech presents, but should be used with great caution, to avoid the dislocation or fracture of the Thigh.

Vide Table XXIX. also Vol. I. Lib. II. Chap. 3. Lib. III. Chap. 3. Sect. 7. and Chap. 4. Sect. 2. Vol. II. Coll. 12. Voll. III. Coll 31, 32.

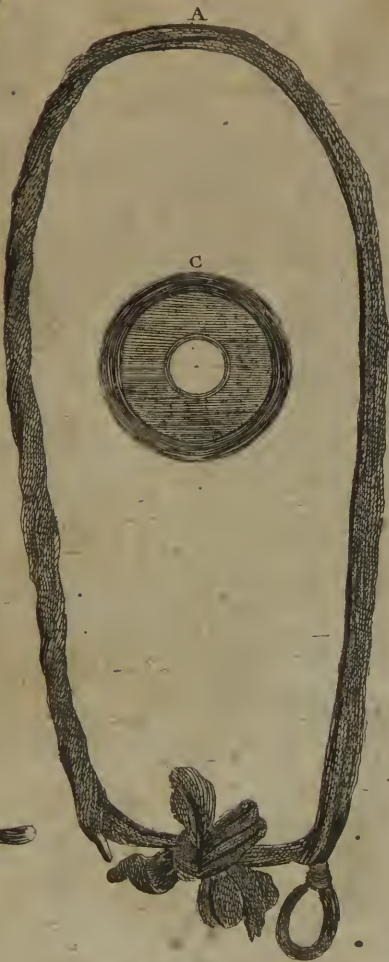
THE THIRTY-EIGHTH TABLE

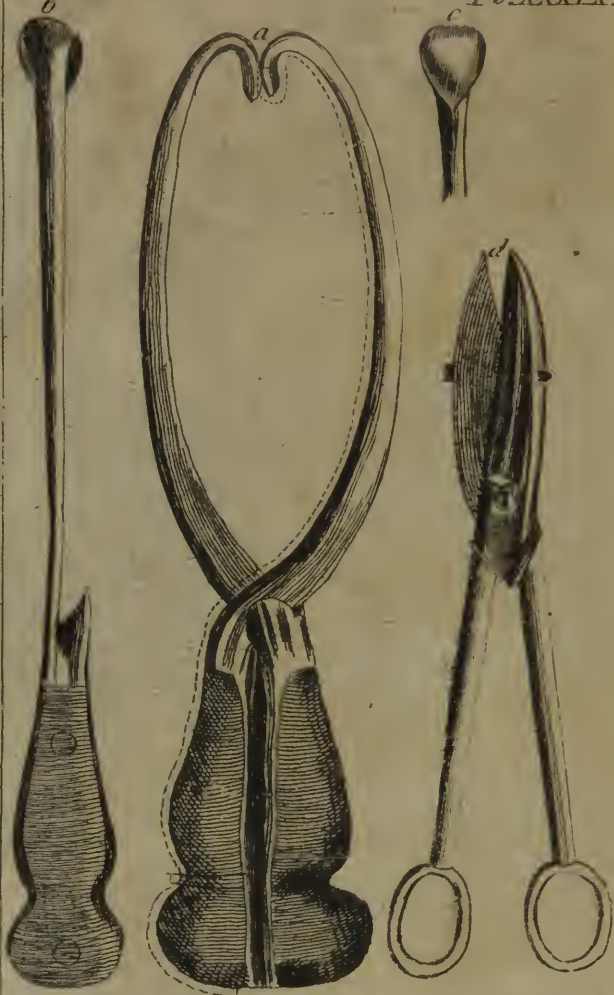
A Represents the Whale-bone Fillet which may be sometimes useful in laborious Cases, when the Operator is not provided with the Forceps in sudden and unexpected Emergencies.

When the *Vertex* of the *Fœtus* presents, and the Head is forced down into the lower part of the *Pelvis*, the Woman weak and the pains not sufficient to deliver it, the double of the Fillet is to be introduced along the fore-part of the *Parietal* Bones to the Face, and if possible above the Under-jaw ; which done, the Whale-bone may be either left in or pulled down out of the Sheath, and every weak pain assisted by pulling gently at the Fillet. If the Head can be raised to the upper part of the *Pelvis*, the Fillet will be more easily got over the Chin, which is a safer and better hold, than on the Face. If the Face or Forehead presents, the Fillet is to be introduced over the *Occiput*. *Vide* Vol. I. Lib. III. Chap. 3. Sect. 2. Vol. II. Coll. 24.

In such Cases likewise the Whale-bone may be supplied by a Twig of any tough Wood, mounted with a limber Garter or Fillet sewed in form of a long Sheath.

B B. Gives two Views of a new kind of Pessary for the *Prolapsus Uteri*, being taken from the *French* and *Dutch* kind. After the *Uterus* is reduced, the large End of the Pessary is to be introduced into the *Vagina*, and the Os *Uteri* retained.





tained in the concave part, where there are threeholes to prevent the stagnation of any moisture. The small End without the *Os Externum* has two tapes drawn through the two holes, which are tied to four other tapes, that hang down from a belt that surrounds the Woman's Body, and by this means keep up the Pessary. This sort may be taken out by the Patient when she goes to Bed, and introduced again in the morning ; but as this sometimes rubs the *Os Externum*, so as to make its use uneasy, the round kind marked C are of more general use. They are made of Wood, Ivory, or Cork (the last covered with Cloth and dipt in Wax) : the Pessary is to be lubricated with Pomatum, the edge forced through the passage into the *Vagina*, and a finger introduced in the hole in the middle lays it across within the *Os Externum*. They ought to be larger or smaller, according to the wideness or narrowness of the passage, to prevent their being forced out by any extraordinary straining. *Vide* Vol. I. Lib. IV. Chap. 1. Sect. 7. Vol. III. Coll. 24.

D D Gives two Views of a Female Catheter to shew its degree of curvature and different parts. Those for common use may be made much shorter for conveniency of carrying in the Pocket ; but sometimes, when the Head or Body of the Child presses on the Bladder above the *Pubes*, it requires one of this length ; and in some extraordinary Cases I have been obliged to use a Male Catheter.

Vide Vol. I. Lib. II. Chap. 1. Sect. 1, 2. Vol. II, Coll. 10. No. 2.

THE THIRTY-NINTH TABLE

a Represents a pair of curved Crotchets locked together in the same manner as the Forceps : It is very rare that the use of both is necessary, excepting when the Face presents with the Chin turned to the *Sacrum*, and when it is impossible to move the Head to bring the Child footling, or deliver with the Forceps. In that case, if one Crotchet is not sufficient, the other is to be introduced, and when joined together

together will act both as Crotchets, in opening the *Cranium*, and as the Head advances, will likewise act as Forceps in moving and turning the Head more conveniently for the Delivery of the same. They may also be useful to assist when the Head is left in the *Uterus*, and one Blade is not sufficient. There is seldom occasion however for the sharp Crotchet, when the Head presents, the blunt Hook in Table XXVII. being commonly sufficient, or even the Forceps to extract the same, after it is opened with the Scissars. Great care ought to be taken when the sharp Crotchet is introduced, to keep the point towards the *Fœtus*, especially in Cases where the Fingers cannot be got up to guide the same. The dotted lines along the inside of one of the Blades, represent a Sheath that is contrived to guard the point till it is introduced high enough; the ligature at the handles marked with the two dotted lines is then to be untied, the sheath withdrawn, and the point, being uncovered, is fixed as directed in Table XXXVI.

The point, guarded with this Sheath, may also be used instead of the blunt Hook.

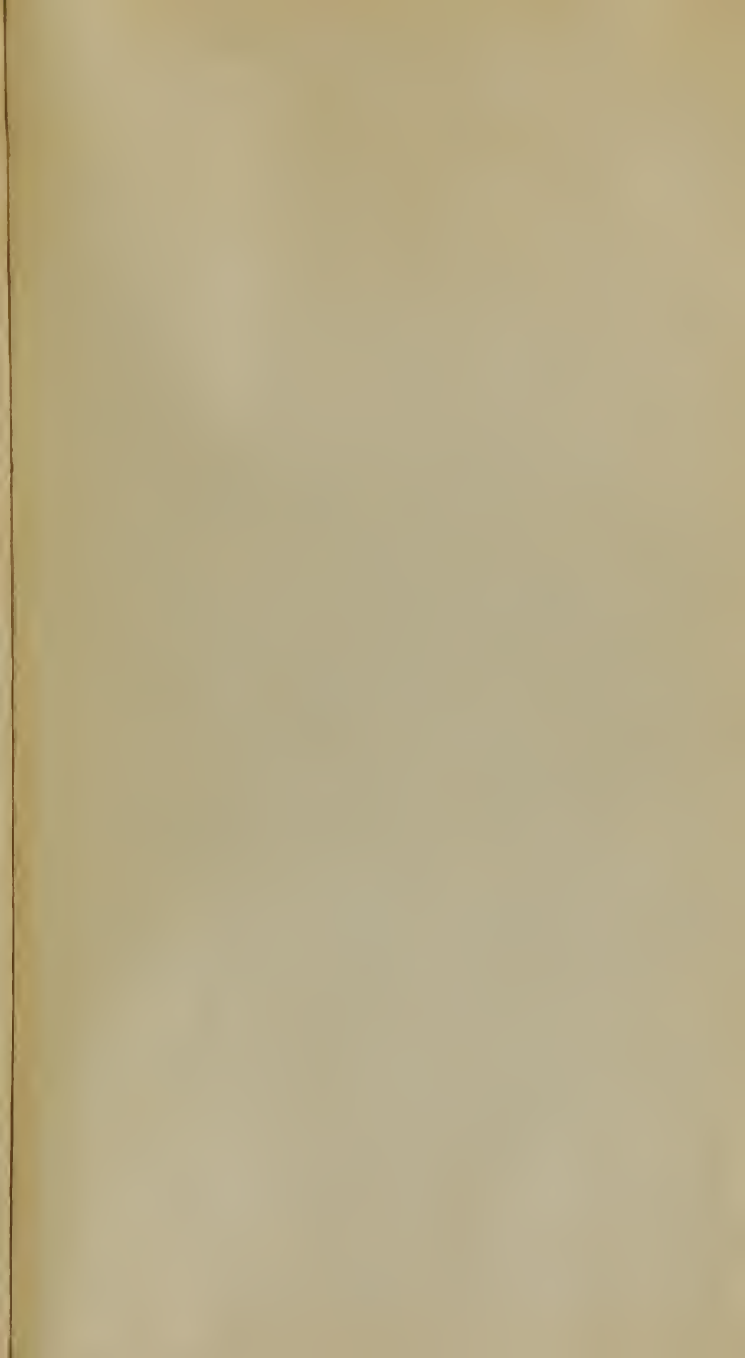
b Gives a View of the back part of one of the Crotchets which is twelve Inches long.

c Gives a front View of the point to shew its length and breadth, which ought to be rather longer and narrower than here represented.

d Represents the Scissars proper for perforating the *Cranium* in very narrow and distorted *Pelvises*. They ought to be made very strong, and nine Inches at least in length, with stops or reëts in the middle of the Blades, by which a large dilation is more easily made.

The above Instruments ought only to be used in the most extraordinary Cases, where it is not possible to save the Woman without their assistance.

Vide Vol. I. Lib. III. Chap. 3. Sect. 5. Chap. 5. No. 1. Vol. III. Coll. 31. 35.



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